

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

TENDER DOCUMENT

*Name of Work: Renovation of Old Quarters (two blocks) at Vainu
Bappu Observatory (VBO), IIA, Kavalur, Tirupattur
Dist., Tamil Nadu.*

Tender Notice No.: 50/IIA/CIVIL/VBO/2021-22 Dated 20.01.2022

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.: 50/IIA/CIVIL/VBO/2021-22 Dated 20.01.2022

TWO COVER – TWO STAGE SYSTEM

The Director, Indian Institute of Astrophysics invites sealed item rate tenders in the prescribed format for the following work from appropriate registered class I contractors in state PWD/CPWD and who have executed works of similar nature with central or state Govt. / Autonomous institutions / Research institutions / Govt. undertakings.

Sl. No.	Name of the work	Estimated cost in Rs.	Time for completion	EMD	Cost of tender document Rs.
1.	Renovation of Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu.	27,93,000/-	05 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 (Published in IIA website) duly filled and signed with all necessary particulars complete credentials including experience/completion 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 Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”**. 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 21.02.2022 on or before 15:00 hrs.**

Only **TECHNICAL BIDS (COVER 1)** will be opened at **15:30 hrs on the same day** in the presence of attending tenderers or their authorized representatives.

Financial bids (Cover 2) of technically qualified bidders will be opened with prior intimation. The list of technically qualified bidders and date of opening will be **displayed in the IIA website only**.

SITE VISIT:

All intended bidder's may **visit the site at 11:00 AM on 09.02.2022** and get all necessary clarifications regarding tender document, site, availability of materials, labors, etc., from the Civil Engineering Section.

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 31.12.2021 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 new building construction or renovation works at staff quarter's in central / state Govt. or research institutions, which includes waterproofing, interior, plumbing & sanitary, etc. 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 class I Contract License issued by the competent authority in state PWD / CPWD shall be enclosed.

OTHER CONDITIONS

1. Technical (Cover 1) & price Bids (Cover 2) supported by the above information should be submitted in a Sealed envelope (Cover 3) 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 21.02.2022**.

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 **21.02.2022**.
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 21.02.2022** 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.: 50/IIA/CIVIL/VBO/2021-22 Dated 20.01.2022

M/s.

Dear Sir,

The Director, Indian Institute of Astrophysics, Bengaluru invites Sealed Tenders for the work of “**Renovation of Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu**”. 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 Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”**. 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 Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”**

Tender Notice No.: 50/IIA/CIVIL/VBO/2021-22 Dated 20.01.2022

Name of

The Firm: _____

Address: _____

Phone No: _____

Last date for submission: 21.02.2022 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 Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”**

Tender Notice No.: 50/IIA/CIVIL/VBO/2021-22 Dated 20.01.2022

Name of

The Firm: _____

Address: _____

Phone No: _____

Last date for submission: 21.02.2022 at 15:00 hrs

Tender for the “Renovation of Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”

Conditions of contract

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

Estimated cost : **Rs. 27,93,000.00 (Rupees twenty seven lakhs ninety three thousand only)**

Time of completion : **Five (05) 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. **Five (05) 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 Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”

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.

15. PLANNING AND DESIGNING IN PURVIEW OF VULNERABILITY ATLAS OF INDIA:

Vulnerability Atlas of India (VAI) is a comprehensive document which provides existing hazard scenario for the entire country and presents the digitized State/UT-wise hazard, maps with respect to earthquakes, winds and floods for district-wise identification of vulnerable areas. It also includes additional digitized maps for thunderstorms, cyclones and landslides. The main purpose of this Atlas is its use for disaster preparedness and mitigation at policy planning and project formulation stage.

This Atlas is one of its kind single point source for the various stakeholders including policy makers, administrators, municipal commissioners, urban managers, engineers, architects, planners, public etc. to ascertain proneness of any city/location/site to multi-hazard which includes earthquakes, winds, floods thunderstorms, cyclones and landslides. While project formulation, approvals and implementation of various urban housing, buildings and infrastructures schemes, this Atlas provides necessary information for risk analysis and hazard assessment. The Vulnerability Atlas of India has been prepared by Building Materials and Technology Promotion Council under Ministry of Housing and Urban Affairs, Government of India and available at their website www.bmtpc.org.

It is mandatory for the bidders to refer Vulnerability Atlas of India for multi-hazard risk assessment and include the relevant hazard proneness specific to project location while planning and designing the project in terms of :

- i) Seismic zone (II to V) for earthquakes
- ii) Wind velocity (Basic Wind Velocity: 55, 50, 47, 44, 39 & 33 m/s)
- iii) Area liable to floods and Probable max. surge height
- iv) Thunderstorms history
- v) Number of cyclonic storms/severe cyclonic storms and max. sustained wind specific to coastal region.
- vi) Landslides incidences with Annual rainfall normal
- vii) District wise Probable Max. Precipitation

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. The date of site visit is on 09.02.2022, Wednesday in presence of concerned officers/Engineers of IIA.
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.
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 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 MATERIALS

CIVIL

Sl. No	Material	Make
1	Steel	SAIL – TMT, VIZAG STEEL
2	Cement	ACC / Birla / L & T
3	Acrylic Exterior Emulsion	Asian Paints
4	Plastic Emulsion Paint	Asian Paints
5	Enamel Paint	Asian Paints
6	Aluminium	Tata / Jindal or equivalent
7	Glass	Saint Gobain, Modi
8	Flush Door	Greenply / Century door / Kutty's Bond Wood
9	M.S. sections	Zindal / Tata / Vizag steel
10	Veneer / laminate /ply	Century / Greenlam / merino
11	Waterproofing	Fosroc / IS approved or equivalent
12	Vitrified Tiles	Kajariya / Cera / Nitco / Rak / Johnson
13	Ceramic tiles	Kajariya / Cera / Nitco / Rak / Johnson

WATER SUPPLY AND SANITARY WORKS

Sl.No.	Material	Make
1	PVC	Ashirvad / Kisan / Supreme
2	CPVC	Astral / Ashirvad / Supreme / Prince
3	C.P. Fittings	Jaguar / Hindware / approved equivalent
4	Ceramic fittings	Hindware / Jaguar / approved equivalent
5	SFRC manhole frame and Covers	Southern Concrete Industries/approved equivalent
6	Kitchen sink	Hindware / Cera / Nirali / Approved Equivalent
7	Anchor bolts	Hilti / approved equivalent
8	SS Grating & MH frame & cover	NECO / Approved equivalent

BILL OF QUANTITIES

Bill of quantities for the work of “Renovation of Old Quarters (two blocks) at Vainu Bappu Observatory (VBO), IIA, Kavalur, Tirupattur Dist., Tamil Nadu”

(NOTE: Rates shall be quoted after reading the complete Specifications and understanding site conditions)

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. (Existing old chimney to be demolished)					
1.1	In cement mortar	15.00	cum			
2	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	5.00	cum			
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
3.1	Of area 3 sq. metres and below	2.00	each			
4	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					
4.1	For thickness of tiles 10 mm to 25 mm	45.00	sqm			
5	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	5.00	each			
6	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.	5.00	each			
7	Removing white or colour wash or emulsion paint by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	125.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
8	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.					
8.1	With cement mortar 1:4 (1 cement : 4 fine sand)	60.00	sqm			
9	Dismantling/removing of existing sink including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	8.00	each			
10	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	10.00	cum			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
11	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone - III) : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	25.00	sqm			
12	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:					
12.1	1:3:6 (1 cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	5.00	cum			
13	Centering and shuttering including strutting, propping etc. and removal of form for :					
13.1	Suspended floors, roofs, landings, balconies and access platform	20.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
14.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	100.00	kg			
15	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	2.50	cum			
16	Cast-in-situ RCC chajja of design mix M20 (1:1.5:3) at 1st floor. Note: cost is including the cost of scaffolding, centering, shuttering, reinforcement and finishing the surface with CM 1:3. This is recasting of existing damaged chajja.	1.00	LS			
17	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
17.1	Cement mortar 1:4 (1 cement :4 coarse sand)	8.00	sqm			
18	12 mm cement plaster finished with a floating coat of neat cement of mix :					
18.1	1:4 (1 cement: 4 fine sand)	20.00	sqm			
19	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (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. Base rate: Rs.70/sft	65.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
20	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 : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Base rate: Rs.70/sft	155.00	sqm			
21	Staircase tiles: Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :Note: Laying should be done for landings, Treads & risers. Base rate: Rs.70/sft					
21.1	Medium shade pigment using 50% white cement, 50% ordinary cement	45.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
22	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.					
22.1	Granite of any colour and shade	12.32	sqm			
	Area of slab over 0.50 sqm					
23	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content					
23.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	1,650.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
24	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. Note: Cost is inclusive of sanding and putty (Putty may be provided to make the surface smooth wherever required as instructed by Engineer-in-charge)					
24.1	Two coats	1,650.00	sqm			
25	Finishing walls with water proofing cement paint of required shade :					
25.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	40.00	sqm			
26	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Note: Cost is inclusive of sanding and putty (Putty may be provided to make the surface smooth wherever required as instructed by Engineer-in-charge)					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
26.1	Two or more coats on new work	1,050.00	sqm			
27	Providing and applying of French spirit polishing :					
27.1	Two or more coats on new works including a coat of wood filler	55.00	sqm			
28	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade					
28.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	1,850.00	sqm			
Joinery works						
29	Mesh door: Providing and fixing fly proof galvanized M.S. wire gauge to windows/clerestory windows/door using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.					
29.1	With 2nd class teak wood beading 62X19 mm	25.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
30	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					
30.1	Sal wood	1.50	cum			
31	Providing and fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.					
31.1	Door chowkhats	36.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
31.2	Window chowkhats	4.00	each			
32	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					
32.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	6.00	sqm			
33	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :					
33.1	100X58X1.90 mm	12.00	each			
34	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	3.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
35	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :					
35.1	250x10 mm	6.00	each			
36	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100mm x 8 mm complete as per					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
	manufacturer's specifications and direction of Engineer-in-charge.					
36.1	Non decorative finish	5.00	sqm			
37	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :					
37.1	Kiln seasoned and chemically treated hollock wood	2.50	sqm			
38	Providing and fixing UPVC (Unplastisized Poly-Vinyl Chloride) fixed / sliding / openable windows multichambered and stiffened / reinforced framed windows using 112 mm x 52 mm size sections around as main frames and shutters made with the profile sections of size 68 mm x 42 mm, including the cost and fixing of 5 mm thick clear float glass in shutters and	19.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
	<p>SS Mesh in mesh Shutters of Size 60 mm x 35 mm with necessary beading, the corners of all the profiles of frames and shutters shall have well defined welded corner joints without any gaps, fixing the window unit to the existing masonry with anchor fasteners as required. The shutters shall have necessary handles and other associated fittings to facilitate smooth operation. The gaps between the window frames and masonry walls shall be filled with silicon or with any other suitable filler materials. Both the Frame and the Shutters shall be Reinforced with GI Profiles of thickness 1.25mm.</p> <p>Note: 1. Exhaust provision should be provide for kitchen windows. 2. Louvers provision should be provide for bath / toilet ventilators / windows</p>					
39	Taking out existing wooden door shutter / window, repair by cutting, painting etc. and refixing of repaired door shutters / windows to existing frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	5.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
40	Providing and fixing aluminium partitions / windows / skylights / ventilators with louvers with 6 mm thick frosted glass, including providing EPDM gasket, desiccants, snap beading, C.P. brass / stainless steel screws, sealant (Both primary and secondary sealant), etc. as per specifications, drawings and direction of Engineer-in-charge complete.	20.00	sqm			
Waterproofing work						
41	Providing waterproof treatment to roof slab using 2 coats of acrylic co polymer elastomeric ISOPROOF sealer and protector. The surface shall be prepared free of tar, dust, fungus, loose particles etc. The surface shall be applied with basecoat of crystallization liquid then ISOPROOF, wetting agent and liquid (1:1:6) over the prepared surface. In addition the surface shall be provided with polysulphide/acrylic sealant to V grooves making haunch at junction of parapet and roof slab and at damaged portion using patching mortar to drain off rainwater. Over this one coat of flexible cementitious membrane (FCM) , spreading 2 layers of 40gsm non woven geotextile membrane as reinforcing material (over FCM) with one primer coat of ISOPROOF and applying second coat confirming to ASTM D 412-1992. The work	630.00	sqm			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
	shall be carried out as per the directions of Engineer in charge.					
water supply and sanitary works						
42	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 wallsetc. Make: Astral/Ashivad/Supreme					
42.1	20 mm nominal dia Pipes	100.00	rm			
43	Providing, laying and jointing unplasticized PVC pipes and specials of working pressure as mentioned below conforming to IS:4985 including cost of necessary jointing materials, wall clips & labour for excavation of trenches, testing, refilling etc., complete all as per specifications.					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
43.1	6Kg/Sqcm and 75mm OD	15.00	rm			
43.2	6Kg/Sqcm and 110mm OD	130.00	rm			
43.3	6Kg/Sqcm and 160mm OD	25.00	rm			
43.4	6Kg/Sqcm and 200mm OD	25.00	rm			
44	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Make: Hindware/CERA/Parryware.					
44.1	Kitchen sink with drain board 510x1040 mm bowl depth 225 mm	8.00	each			
45	Providing and fixing of CP sink cock with wall flange as per IS standard of approved brand and design as approved by Engineer-In-charge. Make: Jaquar	8.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
46	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Make: Jaquar					
46.1	Flexible pipe- 32 mm dia / 40 mm dia	8.00	each			
47	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : Note: Commode may be with S/P trap & Basic price of EWC - 5,000/-					
47.1	W.C. pan with ISI marked white solid plastic seat and lid. Make: Hindware	8.00	each			
48	Providing and fixing of 2 in 1 CP bib cock with fixtures for fixing as per IS standard of approved brand and design as approved by Engineer-In-charge. Make: Jaquar, Model: FLR-CHR-5041N	8.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
49	Providing and fixing of CP health facet with 8mm dia flexible hose of 1.2m length & wall hook as per IS standard of approved brand and design as approved by Engineer-In-charge. Make Jaquar, Model No: ALD-CHR-573	8.00	each			
50	Providing and fixing of CP shower rose of 100mm dia with arm of 250 mm as per IS standard of approved brand and design as approved by Engineer-In-charge. Make: Jaquar	8.00	each			
51	Providing and fixing of 3 in 1 wall mixer with flange as per IS standard of approved brand and design as approved by Engineer-In-charge. Make: Jaquar, Model No. CON-CHR-273KNUPR	8.00	each			
52	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
52.1	White Vitreous China Flat back wash basin size 450 x 300 mm with single 15 mm C.P. brass pillar tap. Make: Jaquar/Hindware.	8.00	each			
53	Providing and fixing of CP angle cock with wall flange as per IS standard of approved brand and design as approved by Engineer-In-charge. Make: Jaquar	8.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
54	Providing and fixing of CP collection hose to wash basin as per IS standard of approved brand and design as approved by Engineer-In-charge. Make: Jaquar	8.00	each			
55	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.. Make: Jaquar					
55.1	Flexible pipe- 32 mm dia / 40 mm dia	8.00	each			
56	Supplying and fixing in SS grating as per direction of Engineer in Charge. Including making the surface good etc.					
56.1	Size 100mm dia.	16.00	each			
57	Providing and fixing Brass chromium towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. Make: Jaquar					
57.1	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.	8.00	each			

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
58	Providing and fixing S S soap tray / holders with screws (two of soap holders), etc of approved quality and colour. Make: Jaquar	8.00	each			
59	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
59.1	Inside size 90x80 cm and 90 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): Note: Rate shall be inclusive of Excavation, refilling, foot rests and 12mm thick cement plaster at the external surface.	2.00	each			
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
60	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 610x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:					
60.1	Inside dimensions 610 x 610 mm and 45 cm deep for single pipe line: Note: Rate shall be inclusive of Excavation, refilling, foot rests (if required) and 12mm thick cement plaster at the external surface.	4.00	each			
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5					

Sl. No	Description	Quantity	Unit	Rates (Rs.)		Amount (Rs.)
				In Figures	In words	
61	Providing and fixing of polycarbonate sheet of 3mm thick (multi wall) of approved brand with necessary fixtures etc, for fixing as per instruction of Engineer-in-charge.	5.00	sqm			
62	Making groove cutting in walls & Floor for laying of electrical conduits, modules, etc and making the surface smooth by plastering in CM 1:3 with GI mesh.	200.00	rm			
63	Renewing of old mosquito net frame in window shutters by changing existing mesh with new SS mosquito mesh. Note: The rate quoted shall include cost of SS mesh, damaged hinges, beading, etc, complete in all respect.	60.00	each			
Sub Total (A)						
GST @ 5 / 12 / 18 % (B)						
Grand total (A) + (B) = (C)						

Grand Total amount in words.....

.....

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	<u>COVER 1 (TECHNICAL BID)</u>		
a	Complete tender document duly signed by contractor / authorized representative. Power of Attorney to be attached in case of partnership firm) (Published in IIA website)		
b	Tender document fee (Non Refundable)		
c	Bid security declaration from (Annexure –I)		
d	Valid class I Contractor License issued by PWD / CPWD etc.		
e	PAN Details		
f	GST Details with latest 3 GST paid receipts		
g	Work completion certificates indicating name of the work, work order details, executed amount, date of completion, etc for each work issued by competent authority as per tender eligibility criteria		
h	Financial Documents like turnover certificate, IT returns for last 3 Financial Years, assessment order issued by Income Tax dept.		
2	<u>COVER 2 (FINANCIAL BID)</u>		
a	Bill of quantities (signed by contractor / authorized)		
3	<u>COVER 3 (BOTH COVER 1 & 2)</u>		
a	Note: Please mention the name of the work, tender number, contractor address etc. on cover / envelop (cover 3)		

Signature of the Contractor with Stamp

Annexure – I

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.....