

INDIAN INSTITUTE OF ASTROPHYSICS
2nd BLOCK, KORAMANGALA, SARJAPUR ROAD
BANGALORE – 560034

TENDER DOCUMENT

Name of the Work: REFURBISHING THE EVERSLED HALL ROOF
BY REPLACING THE OLD TILES WITH NEW
TILES ROOFING AT I.I.A, KODAIKANAL,
TAMILNADU

Tender Notice No: 14/IIA/CIVIL/EVERSLED ROOF/KKL/2010-11



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

PUBLIC TENDER NOTICE NO: 14/IIA/CIVIL/EVERSHED ROOF/KKL/2010-11 dated January 24, 2011

DATED: January 24, 2011 (SINGLE BID SYSTEM)

The Indian Institute of Astrophysics invites sealed item rate tenders on behalf of the Director in the prescribed form from appropriate registered Contractors in state PWD, CPWD, MES, Scientific Institutions and Private Body Competent contractors who have executed works of similar nature.

Sl. No	Name of the work	Estimated cost in Rs.	Time for completion	EMD Rs.	Cost of tender doc Rs.
1.	Refurbishing the Evershed Hall roof by replacing the old tiles with new tiles roofing at I.I.A, Kodaikanal, TAMILNADU.	21.78 Lakhs	3 Months	44000.00	500.00

The Tender Document can be viewed and downloaded from our website www.iiap.res.in/tenders.htm. Interested tenderers may at their option download the same from our website or may collect from the Institute at Bangalore or Kodaikanal and submit their offers along with EMD (refundable) & Tender fee, (non-refundable) prescribed therein, only in the form of Demand Draft drawn in favour of the Director, Indian Institute of Astrophysics payable at Bangalore. However, your offer should be superscribed in separate envelope mentioning the tender notice No., and date with Date of opening. The Bids shall be submitted in a sealed envelope addressed to the Director, Indian Institute of Astrophysics, Bangalore – 560 034.

Date of issuance of tender documents 27.01.2011 to 10.02.2011
Last date of submission of tender 17.02.2011 @ 1500 hrs
Date and time of opening tender 17.02.2011 @ 1530 hrs

The offers should be submitted in a sealed cover superscribing with “**Tender for Refurbishing the Evershed Hall roof by replacing the old tiles with new tiles roofing at I.I.A, Kodaikanal, TAMILNADU, Notice No. and due date**”. **The last date for submission of bid is 17.02.2011 on or before 3:00 pm. The bids will be opened at 3.30 pm. on the same day in the presence of tenderers or their authorized representatives.**

Following are the Qualifying Criteria:

1) Should have completed at least one work costing not less than Rs.20.00 lakhs during pervious 3 years for Government / Semi Government/Reputed corporate clients.

Or

Three similar works each costing not less than Rs 8.00 lakhs during last three years for Government / Semi Government/Reputed corporate clients.

The intending Bidders shall furnish the relevant experience certificates duly signed by the Competent Authority not less than the rank of Executive Engineer.

2) The tenderers should submit latest TDS Certificate indicating the Income Tax deducted by the client for the execution of similar works.

The Director, IIA reserves the right to accept or reject any or all tenders without assigning any reason thereof.

**Administrative Officer
For Director**

3. INSTRUCTIONS TO THE TENDERERS

1. The tenderers should submit the entire tender document with all the pages of document duly signed.
2. The Offers should be submitted in a sealed cover superscribing the envelope with **“Tender for Refurbishing the Evershed Hall roof by replacing the old tiles with new tiles roofing at I.I.A, Kodaikanal, TAMILNADU, Notice No. and due date”**.
3. If any clarification is required from the Institute regarding the scope of work, site etc., shall be obtained before filling Tender Document. The intending tenderers may also visit the site and get more information from the **Scientist-in-Charge, Kodaikanal Observatory, Indian Institute of Astrophysics, Kodaikanal, Tamilnadu**.
4. If any discrepancy between figures and words for quoted rates are found, the rate quoted in words prevails and the same will be considered for the purpose of evaluation.
5. The tenderers who do not fulfill all or any of the tender conditions or if the tender is Incomplete in any respect, will be summarily rejected.
6. The Institute is not bound to accept the lowest tender whatever the reason so ever.
7. Even though the Tenderers meet the above criteria, they are subject to be disqualified if they have (the Institute reserves the right to verify the particulars furnished by the tenderers.)
 - Made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirement, Conditional bid /proposal; and /or
 - Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.
8. Any effort by the contractor to influence the client in the bid evaluation, bid comparison or contract award decision results in rejection of the contractors bid.
9. Incomplete Bids are liable for rejection.
10. Delayed offer will not be considered.
11. IIA is not responsible for any delay / loss of documents in transit whatsoever the reason may be.

12. No bids will be considered if prescribed EMD and tender fee is not found along with bids .
13. All overwriting and corrections shall be duly attested with stamp and signature of the authorized representative of the firm.
14. Corrigendums/ modifications / corrections, if any, will be published in the website only. Hence the bidders are advised to visit the website before the submission of the bids for considering the same for quoting the rates as a final check.
15. The Director, Indian Institute of Astrophysics reserves the right to accept or reject any or all the tenders in full or part without assigning any reason thereof.
16. Performance certificates of the completed works issued by the clients to be enclosed along with the bid.
17. The committee constituted by the Director may inspect previously completed or ongoing works of the bidders to assess their technical suitability for the tendered work.
18. All the pages of the tender document to be signed and stamped by the authorized representatives of the firm and submit them in the sealed covers.

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***Name of the Work:* Refurbishing the Evershed Hall roof by replacing the old
tiles with new tiles roofing at I.I.A, Kodaikanal,
TAMILNADU**

Tender Notice No: 14 /IIA/CIVIL/EVERSHED/KKL/2010-11

Name of
the firm: _____

Address: _____

Phone No: _____

Last date for Submission
of the tender : **17.02. 2011 up to 3:00 PM.**

FORMAT FOR SUBMISSION OF TECHNICAL & ORGANISATIONAL DETAILS.

NAME OF THE FIRM :

1. OFFICE SET UP OF THE FIRM

1.1 Office Address :

.....

.....

1.2 Year of Establishment:

1.3 Contact person with designation Shri.....

.....

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 :

1.5.1 Details of the staff as per the following format.

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

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 the firm has in possession and the equipment the firm 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 the firm proposes to bring on to site

Tenderers hereby confirms that the quantity and type of tools the firm 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 DETAILS:

Name of the Bank: _____

Branch: _____

Account No.: _____

Average Annual Turnover for last 5 Years: _____

5. INSURANCE

Accident Insurance

Insured with: _____

Policy No.: _____

- 6. Details of Arbitration cases, if any :
- 8. Any other detail you would like to intimate in support of your technical bid for appointment :

Signature of the authorized person with seal of the firm

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

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PRICE BID

Name of the Work: Refurbishing the Evershed Hall roof by replacing
the old tiles with new tiles roofing at I.I.A,
Kodaikanal, TAMILNADU.

Tender Notice No: 14 /IIA/CIVIL/EVERSHED/KKL/2010-11

Name of
the firm: _____

Address: _____

Phone No: _____

Last date for Submission: **17.02.2011 up to 3:00 PM.**

1. Scope of Work

The work shall be carried out as per the specification mentioned in the bill of quantities. Indian Standards (IS) and CPWD works manual shall be referred during the execution of work for detailed specification and execution of works.

Scope of work includes the following major works:

- Mobilization of Men, Material & Machinery
- Obtaining the approval for purchase of material by presenting the samples
- Protection of the working area to avoid noise and dust pollution
- Planning for working in a phased manner to avoid disturbance for Institute work and also keeping in view the weather condition of the area.
- Providing and fixing of Weiner Berger tiles of approved design/texture with necessary frame work as per approved design through skilled and approved work force.
- Replacing/Repairing of damaged G.I. Sheets wherever necessary
- Finishing with civil work and Painting work
- Unforeseen items, if any.

2. Site

Postal Address	Kodaikanal Observatory Indian Institute of Astrophysics Kodaikanal, Tamilnadu Phone: 04542-240218
Nearest Railway Station	Kodai Road (Bangalore – Madurai route)

Before tendering, the bidders are advised to inspect the site of the work and its environment regarding the availability of men and materials etc., with prior intimation to the Scientist-in-Charge, Kodaikanal Observatory, Kodaikanal and be well acquainted with the actual working and other prevalent conditions, availability of materials and labour, condition of road, availability of road for transport of materials, mode of carriage, lead involved for carriage of construction materials, availability of water, electricity etc., to meet general and technical conditions of contract.

3. Technical Specifications

All the works shall be done strictly as per specifications mentioned in the bill of quantities and the instructions that will be provided during execution as per the requirements of the Institute. No deviation shall be permitted except under written orders of the Engineer-in-Charge.

Drawing, specifications and all other documents, which form part of the agreement to be entered into should be carefully studied. IIA shall not accept any claims at a future date for any eventuality arising during the execution of work.

All works should be executed as per relevant IS specifications that are current at the time of execution of work.

The bidder is expected to have good experience in the work detailed under this tender and be sure of :

- a. Completing the work as per schedule given with good quality of work using best quality material available in the market.
- b. Procurement of approved quality tiles and other materials
- c. Provide adequate labour and other resources to do the work with requisite equality, speed and efficiency.
- d. Provide adequate supervision for works by qualified persons.
- e. Provide adequate plant and machinery.

The bidder shall have to satisfy the Authorized Signatory of his ability to provide the above through out the progress of the work.

4. Schedule of Completion

Period of Completion: The work must be completed within a period of **3 months** from the date of issue of Order. Time is the essence of contract. The work programme for the works must be planned and executed in proper sequence.

Bidder shall submit a schedule of execution of works listing date of commencement and completion for all major activities starting from mobilisation of material, machinery and labour, site clearance to the completion of all works.

5. Inspection

Supplier shall satisfy the purchaser or his designated representative, Engineer-in-Charge, for the execution of works to the specifications and the drawings.

All the materials covered in the work shall be subjected to inspection and testing by Engineer-in-Charge. The Engineer-in-Charge will have over all authority during execution of work and will exercise control on quality of material, management of site and execution of works as per specifications and drawings.

No sub standard and in fructuous work will be accepted and paid. The construction materials shall be of good quality and the necessary tests, if required, shall be tested at reputed and approved laboratories at the cost of the contractor.

6. Payment

Payment to the contractor for work done by him shall be paid based on measurements duly certified by Engineer-in-Charge. The final bill should be invariably accompanying the No claim – No due certificate from the contractor and Certificate of handing over and taking over of the completed work from the Contractor and the Engineer-in-Charge.

Maintenance period is reckoned for a period of 12 months from the date the work is handed over by the contractor.

All payments of bills will be made to contractor through crossed cheque marked “A/c payee only”.

No extra cost shall be payable to the contractor on account of escalation of price in respect of raw materials or labour charges whatsoever, during the execution of contract.

No compensation for idle period either for labour or equipments shall be payable by IIA on any account.

7. Rates

Rates quoted in the schedule shall be inclusive of all freights, taxes such as excise, sales tax, General sales tax, Octroi, Royalties etc., and also transport of materials, plants, machineries, labour accommodation, sanitation etc., and all sundries so as to execute the contract as per rules and regulation of local bodies, state government and the Government of India.

8. Changes

The Authorized Signatory shall have the power to make any alteration in or substitutions for original specifications, drawings, design and instructions that may appear to him to be necessary during the progress of the work and such alteration, omission, additions and substitutions shall not invalidate the contract.

9. Material and Supply

The contractor at his own expense shall supply all stores and materials as specified and required for the work of the contract. The contractor at his own expense shall provide all necessary tools, plant and equipment required for the execution of the work.

The necessary taxes, duties etc., required for importing of the materials etc. if any, shall be at the cost of the contractor which shall be in the knowledge of the contractor during quoting the rates of the items of work

The contractor, shall not without the prior written approval of the Authorized Signatory assign or transfer the contract or any part there of or any share or interest therein to any other person.

10. Validity

The tender shall remain valid for three months from the date of opening of tenders for acceptance, within which period the bidder cannot withdraw his offer. The period may extend further if required by mutual agreement from time to time.

11. Liquidated Damages

In the event of failure to complete the work within the specified period, the contractor is liable to pay LD at the rate of 1% per week of delay subjected to a maximum of 10% of the value of contract work. In the unlikely event of any delay from IIA, suitable extension of delivery period will be granted.

12. Earnest Money

Every tender shall be accompanied by a demand draft or bank guarantee for the value of Earnest Money Deposit drawn on any scheduled bank in favour of **Director, Indian Institute of Astrophysics payable at Bengaluru.**

This earnest money will be refunded to the unsuccessful bidder after the award of work is finalized. In the case of successful bidder, the earnest money will be retained as part of the security deposit and will be refunded only after completion of the work and on expiry of the maintenance period which will be reckoned as twelve months, from the date of officially handing over of the work by the contractor.

The earnest money is liable to be forfeited in case the Authorized Signatory feels that the tender is not bonafied or the bidder modifies or revokes the tender during the period the tenders are kept open. The decision of the Authorized Signatory as to whether a tender is a bonafied or not shall be final, conclusive and binding on the bidder.

The earnest money deposit paid by the bidder at the time of tendering shall be forfeited by IIA without prejudice to any other right or remedy available to the IIA under this tender under the following cases:

- a. If the bidder withdraws his offer after submission of his tender and before acceptance / rejection of his tender by IIA
- b. If the bidder after the communication of acceptance of his tender fails to start the work within a reasonable time in accordance with the instructions of the Engineer-in-charge.
- c. If the bidder fails to execute the agreement within a reasonable time.

13. Security Deposit

The person / persons whose tender may be accepted (hereinafter) called the contractor shall have to pay a total security deposit of **5% (Five percent)** of the value of the contract which shall be payable by the contractor(s) as under:

An amount equal in 2% (two percent) of the value of the contract before signing of the agreement. The amount of earnest money submitted by the contractor shall be adjusted against this portion of the security deposit. Balance shall be paid by him after acceptance of his tender and before signing the agreement.

An amount equal to 5% (five percent) of the value of the contract shall be recovered from each running bill at the rate of 5% (five percent) of the value of work done and billed including the EMD converted into Security deposit.

The contractor may be required to pay full amount of security deposit at the time of signing the agreement if so desired by the Authorized Signatory and advised to the contractor to this effect in writing before signing the agreement.

IIA will consider acceptance of Bank Guarantee towards the Security Deposit. The bank guarantee shall be for the full value of the security deposit (5% of the total value of the contract) and shall be valid for a minimum period of 16 months from the date of signing the contract by the contractor. The Bank Guarantee shall be in the approved form and shall be issued by any Scheduled Bank.

All compensation and liquidated damages or other sums of money payable by the contractor under the terms of this contract may be deducted by IIA from the Security Deposit or any sum, which may be due to or may become due to the contractor, or from any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions as aforesaid, the contractor shall within 10 days make good in cash or guarantee bonds executed in favour of IIA or Fixed Deposit receipts tendered by the any Scheduled Banks (in the case of guarantee offered by scheduled banks the amount shall be within the financial limits prescribed by the Reserve Bank of India) or by Government Securities (if deposited for more than 12 months) endorsed in favour of IIA. The amount of Security Deposit will remain with the IIA till the work is satisfactorily completed and maintained. IIA will not be liable to pay any interest on amount of Security Deposit thus held.

14. Disputes

Any dispute and difference of any kind whatsoever arising out of the contract will be subjected to exclusive jurisdiction of court at Bengaluru.

15. Rates and Quantities

Bidder must quote self-supporting composite rate for every item. Quantities shown in schedule are only approximate and are liable for variation. IIA reserves the right to increase or decrease the quantities in any / all items in any proportion and no claims shall be entertained for escalation in rate for any / all items on the grounds of increase or decrease in the schedule of quantities given in schedule.

Bidder shall obtain clear-cut clarification if in doubt about any specification or item or any details not understood before tendering. In case any clarification is sought at a later date by bidder, decision given by Authorized Signatory on the subject shall be final, binding and conclusive.

Unit rate / composite rate(s) should be quoted in figures as well as in words against each item or for all items as shown in the schedule of work and rates. These rates shall be for the finished work at site.

Any error in description, quantity or rates in schedule or any omission there from shall not vitiate the contractor or release the contractor from the execution of the whole or any part of the works comprised therein according to the drawings and specifications or from any of his obligations under the contract. Any error in quantity and or amount in schedule shall be adjusted in accordance with the following rules.

In case the rates in words and figures differ, the rates quoted in words will prevail and the same will be considered for evaluation. In case the amount of an item is not worked out by the bidder, then the amount will be calculated considering the rate quoted in words.

All errors in totaling in the amount column and in carrying forward totals shall be corrected. Any omission to include in the total or to carry forward the prime cost sums and / or provisional sums shall be corrected.

The totals of various items of schedule if any as amended above shall be carried over to the general summary and the bidder sum amended accordingly. The tendered sum so altered shall for the purpose of the tender be substituted for the sum originally tendered and considered for acceptance instead of the original sum quoted by the bidder.

In quoting rates, the bidders are advised to take into account all factors including any fluctuations in the market rates, insurance against all risks etc. No claims will be entertained on this account after acceptance of the tender or during the currency of the contract.

Conditional and tenders containing freak rates and amounts, tenders that are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by Authorized Signatory are liable to be rejected.

The IIA reserves the right to reject any or all tenders received or accept any tender or part thereof without assigning any reason whatsoever. In case of acceptance of part of the tender, the time for completion may also be reduced to the extent considered appropriate by the Authorized Signatory.

The scope of the work and explanatory notes given below are neither complete nor exhaustive but are added to assist the contractor to understand the scope of the work.

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.

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

I/ we hereby tender for the execution for the Director for the work specified above within the time specified above, at the rates specified in the attached schedule 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 by the Director, IIA.

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 or during the execution of work 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 rate quoted in words prevails and the same will be considered for evaluation.
- ❑ If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or words, then the rate quoted by the contractor in the words shall be taken as correct.
- ❑ When the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly the rate quoted by the contractor in words 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 IIA. All the measurements of the work may be recorded jointly by IIA 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 IIA shall have full powers to the removal from the premises of all materials and bad workmanship, which in its opinion are not in accordance with the specifications.
- ❑ The IIA may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors employ upon the work who may be incompetent or misconduct himself.
- ❑ For working on Sundays, holidays and late hours prior permission will be accorded by the Engineer-in charge on the application made by the contractor.
- ❑ All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in charge who shall be entitled to direct at what point or points and in what manner they are to be commenced and from time to time carried on.
- ❑ The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc as institute's property and such materials shall be disposed off to the best advantage of the institute.
- ❑ The contractor shall execute the whole and every part of the work in the most substantial and workman like manner and in strict accordance with the specifications of the CPWD / DOS / Bureau of Indian Standards. In case of any class of work for which there is no such specifications the contractor shall carry out the work in all respects in accordance with the instructions in writing of IIA.
- ❑ The IIA 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 IIA 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, IIA shall for any reason whatsoever not require the whole thereof as specified in the tender to be carried out, the institute 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 expense arrange for the safety provision as per safety code framed from time to time and shall at his own expense 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 contract. Security deposit will not be refunded till clearance certificate from labour officer is obtained by contractor.

- The contractor shall make his /their own arrangements for water required for the works and nothing extra will be paid for the same, as the water available from the institute source may not be sufficient to meet the construction.

- The contractor shall have all the tools and plants necessary to carry out the work such as concrete mixer, vibrator and hoist. The contractor shall employ one graduate engineer during the execution of the work
- Certified plumbers should be employed by the contractor on the plumbing and sanitary work.
- The standard sectional weights referred to as standard tables in para 5.3.3 in CPWD specifications for works 1977 vol. 1 to be considered for conversion of length of various sizes of M.S bars and tor steel bars in to weight.

Size (diameter MM) Weight Kg/M

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

- The entire work is to be completed within the period stipulated i.e. Six months from the 15th 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 IIA, which after approval shall form part of the contract and are to be strictly adhered to.
- The maintenance period for the work shall be twelve months and any defects noticed during the period shall have to be rectified by contractor at his cost, failing which the action taken for maintenance IIA shall be final over which the contractor will not have any claim.
- The contractor shall extend all co-operation to the contractors executing works such as electrical, air conditioning etc who might be working at the site and shall permit to use scaffolding etc already put up by him.

- The IIA 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 IIA.
- The rates quoted by the tenderer in the schedule shall be inclusive of all taxes and levies payable under respective statutes, inclusive of all sales taxes, sales tax on components/ materials/ consumables and also sales tax on works contract in pursuant to constitution (forty sixth amendment) act 1982, control duty and /or any other duty levied by the government or other public bodies. The rates shall be firm and shall not be subject to exchange variations, labour conditions or any condition.
- Sales tax will be deducted from the amount payable to the contractor as per the relevant sales tax act, applicable for the contracted work as amended from time to time, at the rates specified from time to time.
- Samples of all materials to be incorporated in the works shall be submitted to the IIA for necessary 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 IIA. If at any time during the progress of the work the IIA 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 /Aluminium 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 / Aluminium doors and windows.
- The contractor shall prepare a CPM / PERT /BAR chart/ Detailed estimate programme within a weeks time of issue of work order.
- All materials and articles brought by the contractor to the work site shall have to be declared at the security gate. Similarly no materials shall be taken out from the departmental premises without proper gate pass which will be issued by the IIA.
- 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 arrangements 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 any of the above, the work will be carried out as directed in writing by the-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**

SPECIAL CONDITIONS OF CONTRACT

SELECTION AND PROCUREMENT OF TILES

The agency should have an experience of similar type of roof work

The WEINER BERGER TILES is a special kind of tile which is manufactured for similar kind of weather condition and hence the contractor should quote only after having sufficient knowledge of the tiles cost, laying procedures etc., for achieving good and required quality.

The agency should contact the authorized agencies/dealers of Weiner Berger tiles around the Kodaikanal and get the reasonable prices and cost of laying etc., including necessary materials like screws, fixing materials, etc.

The Institute will finalise the texture (model) like Alegra, VHV, Romance, Madura etc., and the colour of the tiles after awarding the work with the selected contractor.

Following are some of the dealers of such kinds of tiles

Dealers in TAMIL NADU

M/s. N. K. Ahammed
Contact Person: Mr. Shakeel
No.73-77, Dr. Natesan Road,
Tripilicane,
Chennai – 600005
Tel: 91 44 28445030; Cell: 91 9841032250

M/s. SEV Tiles Company
Contact Person: Mr. Sirja Ahmed
10B Arumbakkam
Opp. Asian Games Village
Chennai, Tamil Nadu
Tel: Cell 91 98410 41989

M/s. Shanmugam & CO
Contact Person: Mr. Shanmugam
797 Mettupalayam Road,
Coimbatore – 641002
Tel: 91 422 2554360; Cell: 91 9843177667

M/s. SEV Ajmal Khan Firm
Contact Person: Mr. Chelladurai 129/B,
West Boulevard Road, Trichy – 620
008
Tel: 91 431 6544489; Cell: 91 9865358722

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M/s. SEV Decors
Contact Person: Mr. A.Riaz
165-D, North Perumal Maistry Street
Madurai - 625 001
Tel: 91 452 2341989; Cell: 91 9843079029

1. The work shall be executed as per the specification and standard procedures mentioned in the **CPWD Works Manual and Indian Standards specifications**. The laying of tiles shall be as per the manufacturer's specifications and instructions.
2. The works shall be executed without disturbing the working area. The day to day programme of work shall be intimated to the Scientist in Charge/ staff in charge of the work at Kodaikanal.
3. The work shall be carried out only during dry season. Adequate care shall be taken so that no disturbance should cause whatsoever.
4. Proper precautionary measures shall be taken to cover in case or unpredicted rain or wind etc.,
5. The work shall be properly planned and no time should be lost due to non availability of labour/ material etc.
6. The measurements for the hidden items shall be taken during the visit of the engineer in charge to the site as and when required.
7. **If the wood is supplied by the Institute, the same shall be used as per the requirement and the labour payment for the woodwork will be paid accordingly.**
8. **The necessary certificates like Warranty of tiles, Test Certificates, manufacturer's guide book/instruction manual etc. shall be produced to the Institute for records without which no payment will be made.**

**SCHEDULE OF QUANTITIES
CIVIL**

Estimate for the work of refurbishing the Evershed hall roof by replacing the old tiles with new tile roofing at I.I.A, Kodaikanal

Sl. No.	Description of item of work	Units	Quantity	Rates (Rs.) in		Amount
				figures	words	
1	Dismantling tiled roofing with battens boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead	Sqm	825			
2	Providing and fixing tiled roofing (Wienerberger or equivalent) with approved tiles, including scaffolding as per approved pattern ceiling on wooden frame work complete. Wooden frame work to be made of new rafter of size 50x50 mm approved seasoned Sal wood at 500 mm c/c, reepers of size 50x25 mm approved seasoned Sal wood at 320 mm c/c all as per the instruction of Engineer-In-Charge. (Fixing of tiles shall be as per the manufacturers specification and instructions with approved materials and the frame work shall be painted with necessary base coat and anit termite treatment)	Sqm	825			
	OR					
2.1	Cost of the above work excluding the cost of wood which will be provided by the Institute (Rate only item)	Sqm	825			
3	Providing and fixing ridge tiles and hip tiles of approved make (Winerberger or equivalent) for the available ceiling pattern over approved seasoned Sal wood frame work complete, including scaffolding if necessary, pointing with coloured cement mortar and curing complete.	Rmt	150			

4	Providing cement concrete 1:3:6 (1 Cement : 3 Coarse sand : 6 graded stone aggregate 12mm nominal size) patty of size (200mmx75mm) for fastening the Weiner Berger or equivalent tiled roofing including finishing the surface with 12mm thick cement plaster with a floating coat of neat cement of mix 1:3, all as per the instruction of Engineer - In - Charge.	Rmt	625			
5	Brick work with F.P.S bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
5.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	10			
6	Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc. Complete for external surface inclusive of sills, jambs. Soffits, roof top finish etc complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse sand with cement mortar 1:4.	Sqm	130			
7	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					

7.1	1.00 mm thick with zinc coating not less than 275 gm/m ²	Sqm	30			
8	Applying two or more coat of ready mix red oxide Zinc Chromate primer of approved brand and manufacture for the existing GI/GS sheets and the new GI/GS sheet after cleaning the surface and making the surface free from dust, rust etc	Sqm	1200			
9	Painting with 2 or more coats of approved exterior emulsion (asian Apex Ultima / berger weather coat with silicon additives etc.) with a base coat of primer on new work or existing work as per the instruction of the engineer in charge	Sqm	360			
GRAND TOTAL						

(Rupees.....)

Date:

Place:

Signature of the bidder with stamp

