

**Indian Institute of Astrophysics  
Koramangala, Bangalore-560034**

**TENDER DOCUMENT**

**Tender Notice No: 01/IIA/CIVIL/PH/2007**

**Name of the work: Construction of second floor to Power  
House, at IIA Campus, Koramangala, Bangalore**

**Indian Institute of Astrophysics**  
Koramangala, Bangalore-560 034

Tender Notice No: 01/IIA/CIVIL/PH/2007

Dated 03.10.2007

**Name of the work: Construction of second floor to Power house at IIA campus,  
Koramangala, Bangalore**

**Period of completion: 3 Months.**

**Cost of Tender document: Rs. 550.00**

**Tender document  
Sold to M/s**

**Receipt No and date.**

**Sold by**

<b>Last date for request of tender application</b>	<b>:12.10.2007</b>
<b>Date of issuance of tender documents</b>	<b>:15-10-2007 to 19-10-2007</b>
<b>Last date of submission of tender</b>	<b>:22-10-2007 15:00 Hrs</b>
<b>Date and time of opening tender</b>	<b>:22-10-2007 15:30 Hrs</b>

**Administrative officer.**

**Indian Institute of Astrophysics**  
Koramangala, Bangalore-560 034

Tender Notice No: 01/IIA/CIVIL/PH/2007

Dated 03.10.2007

On behalf of the Director, Sealed item rate tenders in the prescribed form are invited from appropriate registered contractors in state PWD, CPWD, MES and Scientific institutions who have executed works of similar nature.

Sl. No	Name of the work	Estimated cost in Rs	Time for completion	EMD	Cost of tender doc
1.	Construction of second floor to Powerhouse at IIA campus. Bangalore.	15 Lakhs	3 Months	Rs.35,000/-	Rs.550.00

Tender documents will be issued to those tenderers who can satisfy on the basis of their past performance, experience in execution of similar type of work, their financial capability, technical manpower etc.

Request for issue of tender application forms for the work should accompany the attested copies of

1. Valid current registration certificate in appropriate class.
2. Latest income tax clearance certificate.
3. Work experience certificate for having executed one single work of similar nature of same or higher value in last two years issued by the officer not below the rank of Executive engineer.
4. List of works executed, along with tools and plants and personnel.

**Last date for request of tender application** :12.10.2007  
**Date of issuance of tender documents** :15-10-2007 to 19-10-2007  
**Last date of submission of tender** :22-10-2007 15:00 Hrs  
**Date and time of opening tender** :22-10-2007 15:30 Hrs

Based on the recommendations of the tender/technical committee, tender form will be issued to the eligible contractors by the Administrative Officer, IIA campus, Koramangala, Bangalore-34 on payment of cost towards documents in cash (non-refundable).

The tenderers must submit sealed tenders with the name of the work superscribed on the cover duly completed in all respects to the Administrative Officer's office on or before the last date. The tenders will be opened at 15:30 hrs on the same day in the presence of the tenderers or their authorised representatives who are present at that time. Tenders should be accompanied by the EMD in the form of Demand Draft/ Bankers cheque only drawn in favour of The Director, Indian Institute of Astrophysics, Bangalore. The Director reserves the right to accept or reject any or all tenders without assigning any reasons there of.

**Administrative officer**

**Tender for the construction of second floor to Power House, at IIA  
Campus, Koramangala, Bangalore-34**

**Conditions of contract.**

Sealed item rate tenders are invited by Indian institute of Astrophysics for the construction of The Power House at IIA campus, Koramangala, Bangalore.

Estimated cost	: Rs15 Lakhs (Fifteen Lakhs)
Earnest money deposit	:Rs 35,000.00 (Thirty five thousand only). Demand draft/ banker's cheque drawn in favour of the Director, Indian Institute of Astrophysics, Koramangala, Bangalore. <b>Tenders without EMD will be rejected.</b>
Time of completion	: <b>Three Months.</b>
Period of commencement	: 7 days from the date of receipt of work order
Percentage of retention money:	: 5% to be deducted from each RA bill and shall be released as under (i)(50% on completion of works and along the final bill (ii) Balance 50% less recovery, if any towards the cost of defects rectified by employer due to lack of response of the contractor on completion of defects liability period and on certification by the Engineer – in charge.
Defects liability period	: 12 Months.
Amount of liquidated damage	: 1%(one percent) per week subjected to the maximum of 10% of the value of contract.
Escalation	: In view of the short duration of the contract, no escalation will be paid to the contractor on account of changes in the market prices of any items of work or changes in the cost of living indices etc.

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

The 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 site is located at the south east corner of the IIA campus at Koramangala adjacent to the canteen block. The second floor and the staircase head room needs to be added to the existing building with ground and first floor. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to nature of the ground and subsoil, the form and nature of the site, the means of access to the site. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed, in general shall themselves obtain all necessary information

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.**

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 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 to the Director.

**Dated:** -----

**Signature of the contractor  
With stamp**

**Postal address.**

**Witness:**

**Address.**

**Occupation.**

## **General conditions of contract.**

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

- ❑ The institute reserves the right to alter the scope /or reduce quantum of work before issue of work order and the contractor shall not have any claim what so ever on this account.
- ❑ Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall be taken as correct.
- ❑ If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or words, then the rate quoted by the contractor in the words shall be taken as correct.
- ❑ When the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly the rate quoted by the contractor will be taken as correct and not the amount.
- ❑ The contractor shall take all precautionary measures to prevent entry of dust, dirt and noise pollution to the adjacent buildings and keep the premises neat and tidy, remove surplus materials and rubbish and shall not cause inconvenience to the staff of IIA. If the contractor or his working people or servants shall break, deface, injure or destroy any part of a building in which they may be working or any buildings, road, kerbs, fence, enclosure, water pipes cables, drains, electric and telephone posts or wire, trees grass or garden. The cost of any such damage and risks arising out of this shall be entirely borne by the contractor.
- ❑ A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer- in charge. All the measurements of the work may be recorded jointly by the Engineer-in charge and the contractor or their respective representatives. The measurements will be taken at site, as per latest IS code of practice for measurements. All measurements shall be taken with steel tapes only.
- ❑ The Engineer- in charge shall have full powers to the removal from the premises of all materials and bad workmanship, which in his opinion are not in accordance with the specifications.
- ❑ The Engineer –in charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors employ upon the work who may be 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 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 this contract. Security deposit will not be refunded till clearance certificate from Labour Officer is obtained by contractor.
- ❑ The contractor shall make his /their own arrangements for water required for the works and nothing extra will be paid for the same, as the water available from the institute source may not be sufficient to meet the construction.
- ❑ The contractor shall have all the tools and plants necessary to carry out the work such as concrete mixer, vibrator and hoist. The contractor shall employ one graduate engineer during the execution of the work
- ❑ Certified plumbers should be employed by the contractor on the plumbing and sanitary work.
- ❑ The standard sectional weights referred to as standard tables in para 5.3.3 in CPWD specifications for works 1977 vol. 1 to be considered for conversion of length of various sizes of M.S bars and tor steel bars in to weight.

Size (diameter MM) Weight Kg/M

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. five months from the 15<sup>th</sup> day of issue of letter of intent/work order. The period includes monsoon period also. Time shall be the essence of the contract. After the work awarded, the contractors shall furnish detailed time schedules for the approval of the Engineer-in



charge which after approval shall form part of the contract and are to be strictly adhere to.

- ❑ The maintenance period for the work shall be twelve months and any defects noticed during the period shall have to be rectified by contractor at his cost, failing which the action taken for maintenance Engineer-in charge shall be final over which the contractor will not have any claim.
- ❑ The contractor shall extend all co-operation to the contractors executing works such as electrical, air conditioning etc who might be working at the site and shall permit to use scaffolding etc already put up by him.
- ❑ The Engineer-in charge will have the right to get any item of the work included in this tender or not executed through other agencies. Schedule of probable quantities in respect of the work and specifications are enclosed. The schedules of probable quantities are liable to alterations by emission, deduction or additions at the discretion of the Engineer-in charge.
- ❑ The rates quoted by the tenderer in the schedule shall be inclusive of all taxes and levies payable under respective statues, inclusive of all sales taxes, sales tax on components/ materials/ consumables and also sales tax on works contract in pursuant to constitution (forty sixth amendment) act 1982, control duty and /or any other duty levied by the government or other public bodies. The rates shall be firm and shall not be subject to exchange variations, labour conditions or any condition.
- ❑ Sales tax will be deducted from the amount payable to the contractor as per the relevant sales tax act, applicable for the contracted work as amended from time to time, at the rates specified from time to time.
- ❑ Samples of all materials to be incorporated in the works shall be submitted to the Engineer-in charge for his approval without claiming any extra cost. Materials not confirming strictly to the samples are liable to be rejected.
- ❑ The employment of any sub-contractors will be subjected to the approval of the Engineer-in-charge. If at any time during the progress of the work the Engineer-in charge determines that any sub-contractor is in competent or undesirable the contractor shall take steps immediately to cancel such sub-contractor. The contractor shall be entirely responsible for all the work included in the contract whether executed by him or through his sub-contractors. In particular it may be noted that the contractor shall obtain steel doors and windows from a reputed manufacturer and before placing order for these, the contractor shall obtain the concurrence of the department for the agency from whom he proposes to obtain steel doors and windows.
- ❑ The contractor shall prepare a CPM / PERT /BAR chart/ Detailed estimate programme within a weeks time of issue of work order.

- ❑ All materials and articles brought by the contractor to the work site shall have to be declared at the security gate. Similarly no materials shall be taken out from the departmental premises without proper gate pass which will be issued by the Engineer-in charge.
- ❑ Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.
- ❑ Sample of various materials required for testing shall be provided free of charge by the contractor. Testing charges, if any unless otherwise provided, shall be borne by the department. All other expenditure required to be incurred for taking the samples, conveyance, packing etc. shall be borne by contractor himself. In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost including preparation of cubes curing etc complete.
- ❑ For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclature shall be accepted along with the item number.
- ❑ The contractor shall along the tender submit a schedule of machinery to be used on the work in support of his assurance to adhere to the time schedule specified in the proforma given.
- ❑ The tenderers shall also submit along with the tender a list of similar major works as also the approximate cost of each work carried out by him in the past and are being carried out for different government department or public bodies along with the details of addresses of the agency to whom carried out 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**

## TENDERER'S EXPERIENCE

Tenderer shall furnish here a list of similar jobs executed by him to whom a reference may be made by the Indian Institute of astrophysics in case such a reference is necessary.

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

**Seal of company**

**Signature  
Designation  
Company  
Date**

## TOOLS AND EQUIPMENT LIST

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

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

Tenderer 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.

**Seal of company**

**Signature**  
**Designation**  
**Company**  
**Date**

## **SCHEDULE OF QUANTITIES**