



INSTITUTE OF PHYSICS

BHUBANESWAR-751 005

(An Autonomous Research Institute of Dept. of Atomic Energy, Govt.of India)

Tender No.01/NIT/IOP/2015-16

CONSTRUCTION OF FOUNDATION FOR AC SYSTEM

**(PART-I)**  
**TECHNICAL BID**

**Signature of the tenderer with seal**



**INSTITUTE OF PHYSICS**  
**BHUBANESWAR-751005, INDIA**

(An Autonomous research institute of Dept. of Atomic Energy, Govt. of India)

No \_\_\_\_\_/IP,

Date \_\_\_\_\_

**NOTICE INVITING TENDERS**

Institute of Physics, Bhubaneswar is an Autonomous Research Institute of the Department of Atomic Energy, Government of India

Sealed tenders in TWO Parts are invited by the Director, Institute of Physics, Bhubaneswar- 751 005 from reputed contractors for the following work. Contractor who fulfill the following requirement shall be eligible to apply.

- (a) Should have satisfactorily completed minimum one /two/three similar works each of single value amounting to 80% / 50% / 40% of the estimated cost respectively or above during last three years ending 31<sup>st</sup> December-2014 and
- (b) Should have carried out one work of any nature either above or a separate one costing not less than Rs. 2.5 lakhs with some Central/ State Government Department/ central Autonomous Body/ central Public Sector Undertaking.Govt. / Semi-govt. organization, need apply with proof (Completion Certificate along with detailed work order) of fulfilling the above conditions need apply only :
- (c) Similar work means repair/ renovation of any building works.
- (d) Should have had average annual financial turnover Rs.7 lakhs on during last three years ending 31<sup>st</sup> December-2014.

Tenderer have to submit the proof of above eligibility criteria i.e. (a) completion certificate along with detailed work order,(b) list of similar work carried out during last 3 year showing duration of work, value of work done, date of work order etc.. (c) Proof of work carried out in Govt. Department as above, (d) copy of Annual turnover during last three years.

Name of the Work	:Construction of Foundation for AC system
Estimated Cost	: Rs.2,32,000/-
Earnest Money Deposit Rs.	: Rs.4,640/-
Cost of Tender Document	: Rs.500/-
Duration of work	:Three week from the date of commencement
Security Deposit	: 5 % of Tender Value
Performance Guarantee	: 5% of Tender Value
Last date for receipt of Tenders	: 1500 hours 07.05.2015
Time of Opening of Tenders	: 1530 hours 07.05.2015

**Signature of the tenderer with seal**

2. Tender documents are in two parts viz. Part-I (Technical Bid) and Part-II (Financial Bid). Part-I (Technical Bid) consists of Notice Inviting Tender with terms and conditions. Part-II (Financial Bid) contains of Schedule of quantities.

3. Tender Documents can be had from the Accounts Officer, IOP, Bhubaneswar-751 005 on written request in the official letterhead of the Tenderer duly recommended by the Officer on Special Duty, IOP or his authorized representative on any working day from 29.04.2015 to 07.05.2015 between 1100 hours & 1300 hours and 1400 hours & 1500 hours on payment of the cost of the tender document in person by cash. The cost paid towards Tender Document is not refundable.

4. Tenderers are required to submit in separate sealed and super scribed envelopes containing and indicating the following:

I	First Envelope	Earnest Money Deposit ( EMD)*
II	Second Envelope	PART-I ( Technical Bid) and the documents in support of eligibility conditions
III	Third Envelope	PART-II ( Financial Bid)

All the three sealed envelopes shall then be placed in another envelope super scribing the Tender No. sealed and submitted to the tender inviting authority.

Note -1: EMD shall be submitted by way of Deposit at call Receipt or Bankers cheque or Demand Draft from any nationalized bank in favour of the Director, Institute of Physics, Bhubaneswar-751005 or Fixed Deposit Receipt (FDR) of a Scheduled Bank.

Note -2: Cash, Cheques and Bank Guarantee for EMD shall not be accepted.

Note-3: tenders not accompanied by the Earnest Money Deposit shall be summarily rejected.

Note-4: EMD in respect of unsuccessful tenderers shall be returned within 90 days from the date of issue of the Letter of Intent to the Successful Tenderer.

**Signature of the tenderer with seal**

5. Tenders shall be dropped in Box placed at extension Building up to 15.00 hours on 07.05.2015 by the Director, IOP or his authorized representative at IOP, Bhubaneswar- 751 005.
  6. The tenders shall be opened same day on 07.05.2015 at 1530 hours in Director's Conference Hall, IOP, Bhubaneswar-751 005 in the presence of attending Tenderers.
  7. The Envelope containing EMD shall be opened first. The Part-I & Part-II of the Tender shall be opened only if the EMD is found to be in order.
  8. The Tenderer shall ensure that the FDR is valid for a period of nine months or more after last date of receipt of tenders and that it is to be pledged in favour of Director, Institute of Physics, Bhubaneswar-751 005.
  9. In case of successful tenderer, the Tenderer shall deposit an amount equal to 5% ( five percent) of the tendered/accepted value of the work as irrevocable performance guarantee in one of the following forms within a period of 5 days from the date of issue of work order:
    - (a) Fixed Deposit Receipt ( FDR) of scheduled Bank OR
    - (b) An irrevocable Bank Guarantee ( BG) in the form prescribed by the Government from a Scheduled Bank.
- The FDR/ BG shall be valid for the period of contract plus a further claim period of 6 months beyond the contract period.
- The performance guarantee shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.
10. The work order shall be issued only after the said performance guarantee in any one of the prescribed form is received and accepted, failing which the Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the Earnest Money absolutely.
  11. Director, Institute of Physics does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all of the tenders or to allot parts of the works to different agencies without assigning any reasons therefore. All tenders, in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected

**DIRECTOR**

**Signature of the tenderer with seal**



**INSTITUTE OF PHYSICS**  
**BHUBANESWAR**  
**GENERAL CONDITIONS**

Name of the Work: CONSTRUCTION OF FOUNDATION FOR AC SYSTEM

- 1) The estimated cost of the above work is Rs.2,32,000 (Rupees Two lakh Thirty Two Thousand only).
- 2) Tenderers are advised to visit the work spot and understand the scope of the work clearly before submitting the tender. No claim of any kind shall be entertained on account of ignorance in this respect.
- 3) The contractors should have adequate and effective organisation for communications with the Engineer-in-charge, Institute of Physics, Bhubaneswar.
- 4) Tender should be signed by persons duly authorised to do so and if required such authority (Power of attorney etc) shall be furnished to the Director.
- 5) Neither the security deposit nor the retention money shall bear any interest.
- 6) The tenders must be filled in ink and in a legible way. Over writing should be avoided. All corrections must be attested by the tenderer with his initials before submission of the tender.
- 7) Tenders proposing any alterations in the work or specifications or in the form of tender or in any other conditions shall be summarily rejected.
- 8) This is an item rate tender. Payment will be made to the Contractor as per actual measurement.
- 9) The rate should be filled in figure and in words. The amount and the totals should also be drawn.
- 10) If the rate in figure differs from the rate in words then the rate corresponding to the calculated amount shall be taken as correct. If the calculated amount does not tally with any of the two rates then the lower of the two rates shall be accepted and the amount shall be corrected.

**Signature of the tenderer with seal**

- 11) Sales Tax, Octroi or any other tax on materials in respect of this contract shall be payable by the contractor.
- 12) **In addition to performance guarantee, 5 % of the work order value shall be deposited as security deposit in the form of Demand Draft drawn in favour of Director, Institute of Physics payable at Bhubaneswar on award of contract or shall be deducted @ 10% of the Bill amount from the RA bills for the said amount. EMD submitted along with the tender shall be adjusted in security deposit , This shall be refunded back after 6 months of successful completion of the work.**
- 13) Payment will be made as per actual measurement submitted by the contractor you after checking the measurement physically by the Engineer-in-charge and payment of the bills will be made within 10 days of the checking of the bills by the Engineer-in-charge.
- 14) The total time allowed for the completion of the work is strictly for three weeks from the date of commencement of the work.
- 15) Income tax, work contract tax other statutory taxes as may be applicable will be deducted at source on all the payments to be released to you for onward deposit with appropriate authority.
- 16) The rates quoted by you will remain firm throughout the currency of contract.
- 17) On the recommendation of the Chairman, Campus Maintenance Committee based on the workmanship, quantity and quality of work done the bill will be passed for payment.
- 18) The acceptance of tender is at the discretion of the Director, Institute of Physics, Bhubaneswar. The Director does not bind himself to accept the lowest tender and reserve the authority to reject any or all the tenders without assigning any reason and reserve the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable for rejection.

**Signature of the tenderer with seal**

- 19) The Director does not undertake any responsibility regarding any instructions issued verbally in respect of this tender. All questions relating to the tender shall be referred to the Director in writing.
- 20) The amounts to be calculated against various items shall be in terms of whole rupees, less than fifty paise being ignored and fifty paise and above being rounded to the next rupees.

**Signature of the tenderer with seal**



**Institute of Physics**  
**Bhubaneswar**

- 1) General: The Contractor shall forthwith in a good substantial and workman like manner, to the satisfaction of the Institute, build and complete the work at Bhubaneswar.
- 2) Date of completion: The Contractor shall actively prosecute the execution of completion of the work to the satisfaction of the Director. The work specified above shall be completed in all respects within 1 months from the date of commencement of work.
- 3) Materials: The Contractor shall provide at his own cost all materials specified in the bills of quantities (with exception of those otherwise mentioned in the specifications) and all labour, tools and plants scaffolding and other implements of every description necessary for execution and completion of the work. All materials to be supplied by the contractor shall be the best of their respective kinds and subject to approval by the Director.
- 4) Sub-Contractor: The Contractor shall not assign or sublet the contract for the work or any part thereof.
- 5) Removal of equipment: The Contractor shall, at his own expenses, within one week from the completion date, remove all tools, plants, scaffoldings, implements and unused materials from the site and leave the same in a clean and proper state, to the satisfaction of the Director.
- 6) Inspection of works: The Contractor shall allow the Engineer-in-charge to inspect and supervise the work during its progress.
- 7) Defective work & rejections: The Contractor shall within 24 hours of notice so to do forth with pull down and rebuild any part of the work which has not been erected, build or completed to the satisfaction of the Director or which is in the opinion of the Director, defective or not in accordance with the specification or the plans.

**Signature of the tenderer with seal**



- 8) Alteration or Deviations: The Institute may at any time during the progress of the work by order in writing make any alteration in the original specifications or plans by way of addition, omission or other deviation whereupon the Contractors shall execute the work according to such alterations to the satisfaction of the Director.
- 9) Additions & Deductions: All additions and deductions to be made to or from amount of the contract price in respect of any such alteration in the specifications or plans shall be ascertained according to the rates specified in the bill of quantities (provided that if appropriate rates are therein specified, they shall be fixed by mutual agreement between the parties) and the difference of expenses occasioned by any such alteration shall be added to or deducted from the contract price. No payment or allowance whatsoever shall be made to the Contractor for any work done or materials used without a previous order, in writing from the Director.
- 10) Measurement of work: The work as it proceeds will be measured net exposed measurements. The Contractors or his representative will accompany the Engineer-in-charge in order that they agree on the measurements. The measurement book can also be examined at the office of the Director before payment is made.
- 11) Precautions against accident: The contractor shall, at all times, take due and proper precautions against accidents or injury to the work or any person or property, and shall indemnify the company for all motions suits or any damage or compensation payable in consequence of any accident or injury sustained by any workman or other person whether in the employment of the Contractor or not.
- 12) Failure to execute the work: If the Contractor fails to execute and complete the work otherwise fail to comply with any of the terms and conditions of this order, then the Institute shall be at liberty without avoiding this order forthwith, to require the Contractor to remove his workmen from the site and to take the work out of the hands of the Contractor and to employ any other person to execute and use all materials, tools, scaffolding, plants, implements and things on or about the work, and thereafter neither the Contractor nor his workman shall have any power to intervene with any person employed by the Institute.

**Signature of the tenderer with seal**

All expenses and damages to property incurred by the Institute, consequent on the employment and certified by Director and shall be paid to the Institute by the Contractor or deducted by the Institute from any money due to or to become due to the Contractor.

- 13) Serving Notices: Any notice to the Contractor under this order may be served personally or by registered post addressed to the Contractor last known place of address.
- 14) Discrepancies: Should there be any discrepancies between the plans, specifications and bills of quantities the same shall be immediately referred to the Director who shall decide what shall be followed.
- 15) The work will be taken up in hands within seven days of the award of the work and shall be completed in all respect within 15 days from the date of commencement of work.
- 16) Extension of time for completion may be allowed if the Director consider that the reasons for the delay in completion of the work is beyond the control of the Contractor.
- 17) Liquidity damages: 0.5% per week subject to maximum of 10%.
- 18) The tender should accompany with the following documents at the time of submission.
  - a) Proof of registration with Govt./Semi Govt. organizations like CPWD, State PWD/Railway etc. in appropriate class, PAN card, VAT Clearance certificates etc.
  - b) Experience having successfully carried out minimum one /two/three similar works in Govt. / Semi-govt. organization, each of single value amounting to 80% / 50% / 40% of the estimated cost respectively or above during last five years need apply with proof ( Completion Certificate along with detailed work order) of fulfilling the above conditions .
  - c) EMD amounting to Rs.4640/- (Rupees Four Thousand Six Hundred Fourty only ) in shape of demand draft or Bankers Cheque , drawn in favour of the Director, Institute of Physics, Bhubaneswar.
  - d) EMD of the successful tenderer will be retained and will be adjusted in Security Deposit.  
In case of absence of any of the documents listed above the tender papers will not be entertained.

**Signature of the tenderer with seal**



**Institute of Physics**  
**Bhubaneswar**

- |    |   |   |
|----|---|---|
| 1  | Defects Liability   | = 6 months  |
| 2. | Period of final measurement and valuation                   | = Within 10days of submission of the bill by the contractor.  |
| 3. | Date of commencement  | = Within 7 days from the date of issue of the work order.   |
| 4. | Agreed liquidated damages                                   | = 0.5% per week subject to maximum of 10%.  |
| 5. | Minimum value of work for interim payment.                  | = Not Applicable.   |
| 6. | Performance guarantee & Security deposit or Retention money | 5% of the value of work order should be deposited as performance guarantee upon award of the contract and in addition 5% of work order value shall be deposited as security deposit or will be deducted against the Running accounts bill. Security Deposit will be refunded after successful completion of period of 6 months. |
| 7. | Payment   | = Within 10 days of of the checking of bill by E-I_C  |
| 8. | Completion Period   | = Within three weeks from the date of commencement of work.   |

**Signature of the tenderer with seal**

**INSTITUTE OF PHYSICS**

**BHUBANESWAR-751 005**

**(An Autonomous Research Institute of Dept. of Atomic Energy,  
Govt.of India)**

**Tender No.01/NIT/IOP/2015-16**

**CONSTRUCTION OF FOUNDATION FOR AC SYSTEM**

**(PART-II)**

**FINANCIAL BID**

**SCHEDULE OF QUANTITIES**

Name of the work : Construction of foundation for AC system.

Sl. No	Description of Items.	Qty.	Unit	Unit Rate		Amount
				In figure	In words	
1	<b>Earth Work</b>					
	Earth work excavation in foundation pits, trenches Plinth / tie beams etc. in all soils other than soft and hard rock up to depths mentioned below including shoring & de watering if necessary, dressing the sides, trimming, ramming and preparing the bed for foundation and refilling around the foundation and in plinth with selected excavated earth, in layers not exceeding 150mm thick, watering, consolidation and disposing of the surplus earth within a distance of 150M. etc. complete as per specification drawings & as directed by the Engineer-in-Charge.	42.53	CUM.			
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	(a)1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	2.025	CUM.			
	<b>Reinforced cement concrete</b>					
3	a)The rates for RCC works shall be exclusive of cost of reinforcement and form work unless otherwise mentioned.					
	b)All coarse aggregate to be 20mm. maximum size and uniformly graded unless otherwise mentioned.					
	c) For all RCC items, the rates quoted shall include the following without any extra cost to the Department.					
	d) Spacers to maintain clear cover for reinforcement.					

Sl. No	Description of Items.	Qty.	Unit	Unit Rate		Amount
				In figure	In words	
3	Reinforced Cement Concrete of grade M-25 in foundation and plinth at all levels and locations for all structural elements like stub column, beam, Raft, Wall etc., conforming to I.S. 456-2000 using graded stone aggregate of 20mm. maximum size down graded including machine mixing conveying, placing in positions, drawings and as directed by the Engineer-in-Charge.	12.534	CUM.			
4	Providing. Erecting, fixing in position striking/removing and cleaning steel/timber shuttering & centering for form work in foundation & plinth and all structural elements etc, at all locations for all shapes including chamfers, splays, keys, wedges, props, rails, bracing, brackets, cutting holes for pipes etc., providing and applying approved from oil on all surfaces of form work coming in contact with concrete including close hacking of all exposed concrete work after removal of form work, all materials, laboiur etc. complete as per specifications, drawings and as directed by the Engineer-in-Charge (Area of form work in contact with concrete shall only be measured for payment.	63.36	SQM.			
	Note: 1. Area of formwork in contact with concrete shall only be measured for payment.					
	2. Stop boards for construction joints will not be measured for payments.					

Sl. No	Description of Items.	Qty.	Unit	Unit Rate		Amount
				In figure	In words	
5	Reinforcement for RCC work including supplying steel bars of various diameters as required at site of work including loading, unloading, transporting, de-coiling, straightening, cutting, bending, placing in position and binding with 18-20 gauge, soft drawn annealed steel binding wire including carrying out various tests as required etc., all as per specifications and drawings.					
	a) Thermo Mechanically treated bars of grade Fe-500 D confoforming to latest revision IS-1786	1447.601	Kg.			
	Note: Cost of binding wire shall be born by the contractor and binding wire shall not be measured for payment.					
6	Providing and fixing 450 mm wide MS ladders with 50x50x6mm MS angle iron stringers with 20 mm dia MS round bars welded at 300mm centre to centre welded to stringers (angles) with curved MS flats at top including providing PCC 1:3:6 bed block of required size and plastering the concrete block in CM 1:3 finished smooth in cement. Rate to include providing and applying two coats of synthetic enamel paint over one coat of primer to steel work, etc. complete	3.00	RMT.			

Sl. No	Description of Items.	Qty.	Unit	Unit Rate		Amount
				In figure	In words	
7	Supplying, fabricating and fixing in position M.S. round holding down (foundation) bolts on slab with nuts and check nuts, washers, pipe, plates, etc., all complete as per instructions of Engineer-in-Charge	16.00	Nos.			
	<b>Notes:</b> The work includes shifting of existing foundation channels with base plate, rubber bearings after dismantling and reinstallation the same over the foundation( slab)					
	<b>NOTES:</b> 1. The rate to include cost of bolt and also to include Supplying and welding holding arrangements such as plate or angle at bottom. The rate also to include preparing and fixing template for keeping the bolts at correct centres before, doing and after concreting					
8	Dismantling the existing AC foundation and reinstallation of the same over the new structure.		L.S.			
Total Amount(Rs.)=						
TOTAL AMOUNT (IN WORDS)=						

N.B-The contractor is required to visit the site and should go in detail before coating the rate.