

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14.

(Web Site:- www.igims.org)

Only through E -tendering process on website www.eproc.bihar.gov.in

NOTICE INVITING TENDER FOR CIVIL & ELECTRICAL WORK, TENDER NOTICE NO :- 92/ (C&E) /E-Tender/2016-17

Percentage rate for schedule item and Item Rate of Non-Schedule Items for Civil & Electrical Work in two bid system (Technical and Price bid) are invited through e-tendering process from eligible and qualified contractors for the following work. Intending bidders must be registered with e-procurement cell on www.eproc.bihar.gov.in. After registration bidders will get user Id, password and digital signature which will provide an opportunity and eligibility to take part in e-tendering process.

Group No.	Name of work	Estimated Cost (Rs)	Earnest Money (Rs)	Cost of Bid Document Non Refunded (Rs)	E-tendering fee (Non Refundable) Rs.	Time of completion of work
1	2	3	4	5	6	
	Civil & Electrical work					
1	Repair, Renovation, Painting and its Miscellaneous Work of B- Type Residential Quarter at IGIMS Patna (Civil Work)	1,54,60,124/-	3,09,500/-	10,000/-	5,725/-	270 Days
2	Extension of Radiology Deptt. for MRI in Diagnostic Block Ground Floor East South Corner at IGIMS, Patna	18,38,539/-	36,800/-	5,000/-	1,145/-	90 Days
3	Up gradation work of R.I.O O. T Area at First floor of Polyclinic Block, IGIMS, Patna.	21,33,934/-	42,700/-	5000/-	1,145/-	60 Days
4	Renewing of old Drainage System of Residential Quartet at IGIMS, Patna	30,62,289/-	61,300/-	5,000/-	1,145/-	120 Days
5	Civil work of Trauma Centre at First Floor, IGIMS, Patna	33,15,871/-	66,500/-	5000/-	1,145/-	60 Days
6	Repair and Painting with water supply and Sanitary Installation work of New MDH at IGIMS, Patna	37,34,551/-	74,700/-	5,000/-	1,145/-	120 Days
7	Civil work of Nero O.T, Uro OT, Corridor, Doctor's Chamber , Recovery, Surgical ICU, Changing Room at First Floor Area of Diagnostic Block ,IGIMS, Patna	42,23,364/-	84,500/-	5000/-	1,145/-	60 days
8	Repair and Painting with water supply and Sanitary Installation work of New MNH at IGIMS, Patna	43,09,162/-	86,200/-	5,000/-	1,145/-	120 Days
9	Repair and Painting work of Existing Medical College Building at IGIMS, Patna	46,75,953/-	94,000/-	5,000/-	1,145/-	120 Days
10	Repair, Renovation , Painting (External & Internal) and other Miscellaneous Work of D- Type Quarter at IGIMS, Patna	47,87,059/-	95,800/-	5,000/-	1,145/-	120 Days
11	Repair Renovation and painting work of A- Type Building at IGIMS, Patna	55,37,626/-	1,10,800/-	10,000/-	1,145/-	120 Days
12	Electrical and Air-Conditioning work of Trauma Centre at First Floor, IGIMS, Patna	1,11,29,289/-	2,22,600/-	10,000/-	5,725/-	90 Days
13	Electrical Work with Air-Conditioning Work of R.I.O O.T Area at First Floor Of Polyclinic Block,IGIMS Patna,	9,76,295/-	19,600/-	1,250/-	1,145/-	30 Days
14	Electrical and Air Conditioning work of Nero O.T, Uro OT, Corridor, Doctor's Chamber , Recovery, Surgical ICU, Changing Room at First Floor Area of Diagnostic Block and Emergency O.T Near Trauma Centre Building Ground Floor IGIMS, Patna	3,23,73,919/-	6,47,500/-	10,000/-	5,725/-	90 Days

Time schedule is as follows :-

01.	Date/Time for obtaining BOQ (Only on www.eproc.bihar.gov.in)	11./04/2016 to 02./05/2016 till 3.00 PM
02.	Last date/ time for submission of complete tender/ quotation Document (Only on www.eproc.bihar.gov.in)	02./ 05/2016 at 3.30 PM
04.	Date / Place of opening of tender / quotation (Technical bid only on www.eproc.bihar.gov.in)	04 / 05/2016 at 3.30 PM in Conference Hall of IGIMS, Patna
05.	Date / place of opening of tender / quotation (Price bid only on www.eproc.bihar.gov.in)	Date of opening of price bid of technically viable tender shall be intimated only through www.eproc.bihar.gov.in and on Institute web site www.igims.org .

The Details Can be Viewed on Institute web site. www.igims.org

Sd/-

**DIRECTOR
IGIMS, PATNA**

Particulars in brief:

1. Authority to sanction the tender: Director, IGIMS, Sheikhpura, Patna-8000014.
2. Any Contractor with valid Registration with any of these: Building Construction Department /Road Construction/ PWD/ C.P.W.D./Bihar Rajya Pool Nirman Nigam/Indian Railway /any other Government department ,may participate in this tender.
3. Tender shall be carried out only through e-tender procedure at the website (www.eproc.bihar.gov.in). For any information regarding e-tender procedure, bidder may contact at Help Desk, First Floor. M/22, Bank of India Building, Road No-25, Sri Krishna Nagar, Patna-800001. and may contact also on Ph-0612-2523006, Mob. 9939035696.
4. Bidder desiring to participate in the tender shall have to get registered with e-procurement. Necessary registration forms are available at the website. Bidder will get user id and password by registration. Bidder shall have to obtain DSC (Digital Signature Certificates) also. Bidder shall be able to participate in tender using user id, password, DSC and internet.
5. Bidder shall have to obtain (download) tender papers and submit (upload) their bids at the website www.eproc.bih.gov.in
6. Prescribed forms filled up at specified places and necessary documents shall (in hard copy) be submitted in office of the Director, IGIMS, Patna on or before the stipulated time by Regd./Speed Post/Courier. Information regarding tender opening or any corrigendum regarding tender shall be available at the website only.
6. The cost of tender document is non-refundable and it should be in the shape of Demand draft from any nationalized bank, payable in favour of "Director, IGIMS, Sheikhpura, Patna-14. Original Bank Draft shall be submitted at the office of the Director, IGIMS, Sheikhpura Patna-14 till last date and time of submitting (uploading) tender papers with technical bid.
7. The Earnest money shall be acceptable with Technical bid in the shape of Demand Draft (DD) in favour of Director, IGIMS, Sheikhpura, Patna of any schedule bank, otherwise Tender will not be considered as responsive. The Bid validity period of 120 days from the date of submission of tender/quotation.
 - (a) Tender/quotation processing fee (Non Refundable as per NIT- is mandatory to be paid through on line mode i.e. Internet payment gateway (credit/debit card, net banking, NEFT/RT GS)
 - (b) Bids along with necessary on line payment must be submitted through e-procurement postal www.eproc.bihar.gov.in before the date & time specified in the N.I.T. The department does not take any responsibility for the delay/non submission of tender, quotation/ non reconciliation of on line payment caused due to non availability of internet connection, network traffic /holidays or any other reason.
8. Regarding any information of the proposed work, bidder should contact the Superintending Engineer, IGIMS Patna on any working day, before submission of bid.
9. The undersigned has right to extend or cancel the Bids without declaring any reason

10- ELIGIBILITY CRITERIA :

a) Experience

Interested tenderers who fulfill the following eligibility criteria, shall be only eligible to participate in this Bid process. The contracting Firm/ Agency should have satisfactorily completed as a prime contractor during the last five years, ending March 2015.

Three similar works each costing not less than 40% (forty percent) of the estimated cost or completed **two** similar works each costing not less than 60% (sixty percent) of the estimated cost or completed **one** similar work costing not less than 80% (eighty percent) of the estimated cost.

Note- Similar work of group 12 and 14 means Electrical and SITC of HVAC / VRV air conditioning system and equipment.

- b) i) For Group 12 and 14 of this tender-The bidder should be an authorized agent for the SITC of OEM of reputed make HVAC/ VRV system and equipment. He must enclose and up load the self certified photocopies of valid original certificate of OEM indicating the same.

- ii) The bidder has to submit a notarized certificate that there is fully manned and equipped service centre of OEM, HVAC/ VRV air conditioning for maintenance of these air conditioning units in Patna, in the warranty and after warranty period.
- c) For Group 12 to 14
The bidder or its associate must possess a valid Electrical License issued from Government.

11. BIDDING PROCESS

DOCUMENTS AVAILABLE

Following documents related to this tender are available at website which should be downloaded by the bidder:-

- a) TENDER DOCUMENT (Document available in Tender free View)
- b) **TECHNICAL BID SHEET**
Bidder shall have to download empty document and upload filled file for evaluation of technical bid.
- c) **BOQ FINANCIAL BID**
Bidder shall have to download BOQ and upload filled file for evaluation of financial bid.

12. EVALUATION OF BID

Bid shall be evaluated in two stages:

- a) Evaluation of technical bid which consists of Eligibility of bid and documents to assign with technical bid.
- b) Evaluation of financial bid

13. Technical Bid shall contain following-

Bidders should submit (upload) Notarized and self attested copy of the following documents to evaluate their eligibility, otherwise bid will not be considered for Evaluation of Technical Bid and bid will be summarily rejected:-

- a) Required Demand Draft in favour of Director, IGIMS against cost of the bid document for the work as indicated in N.I.T.
- b) Required Earnest money for the said work in shape of Demand Draft in favour of Director, IGIMS.
- c) Valid Registration Certificate with any of these: Building Construction Department /Road Construction/ C.P.W.D./Bihar Rajya Pool Nirman Nigam/ Indian Railway /any other Government department,
- d) Valid Character certificate issued by District Magistrate or SP.
- e) Valid Labor License issued by Labor Department with EPF, ESIC No. up to date challan
- f) Sales Tax / VAT registration & up to date clearance certificate.
- g) PAN No. & Up to date Clearance Certificate
- h) Service Tax Registration Certificate

14. Documents to assign with Technical Bid-

Bidder should upload the following documents in addition to the required documents as per eligibility of bid in support of technical evaluation. Documents shall be attached in the same sequence as noted down below.

- I) Audited Annual Financial Turnover from Chartered Accountant for the years
 - a- 2012-13
 - b- 2013-14
 - c- 2014-15
- II) Certificates by Employer for successful completion of works or final payment certificate during last five years, from date of submission of tender, specifying.
 - a- Name of work
 - b- Employer
 - c- Location
 - d- Contract amount
 - e- Date of start
 - f- Date of completion

Bidders should have experience of similar work completed during last five years. Minimum one similar work costing not less than 80% of the estimated cost or two similar works costing not less than 60% of the estimated cost or three similar works costing not less than 40% of the estimated cost.

- III) List of Works in hand (Existing Commitment) specifying
 - a- Name of work

- b- Employer
- c- Location
- d- Contract amount
- e- Date of start
- f- Date of completion.

IV) A) Document showing ownership of plants and equipment needed for successful completion for work group 1 to 11 :-

- a- Concrete Mixer with weighing facility
- b- Steel centering and shuttering showing area in square feet
- c- water Tanker
- d- Vibrator

B) Document showing list technical Manpower and tools, tackles needed for successful completion for work group 12 and 14

- a) Vaccum pump
- b) Refrigerant filling manifold station
- c) Air conditioning piping and ducting work tools

V) Details of financial availability:-

- a- Undertaking on non-Judicial stamp for cash investment of 25% of estimated cost for this work.

VI) Certificates in the form of Affidavit by the bidder for: -

- a- Bidder never been debar/rescind for any project which was taken up by bidder
- b- Bidder had no relative or any person directly or indirectly involved in design, execution, and supervision and testing of this tender.

VII) Bidding Capacity statement

Bidding Capacity, $BC = A \times N \times 3 - B$

Where,

A= Maximum ATO at current price level (with 8% annual indexation)

N = Time of completion of this tendered work in years

B = Value of works in hand (Existing Commitment of Bidder)

VIII) Performa I should duly filled and uploaded at www.eproc.bihar.gov.in and hard copies submitted at the Director Office along with all the supporting documents.

IX) In addition to above the bidder has to submit and upload following for group no 12 to 14

- i. Details of technical personnel available with contractor with name, qualification and experience in tabulated form
- ii. Attested Copy of List of Tools, Plant and Machinery Immediately available with the Tenderer for use on the Electrical and SITC of HVAC/ VRV AC units, work. It should be related requirement of the respective work only.
- iii. Documents as required in Eligibility Criteria clause 10. a to c.
- iv. The bidder has to submit the duly filled special technical bid sheets with the entire details catalogue drawing as Annexure I along with the technical bid for work Group No12, and 14 of this tender. Any column not filled in these sheets or left blank may lead to rejection of the tender.
- v. The bidder must submit a notarized and self attested photo copy of the certificate that The bidder has an authorized sales and service agency of Original Equipment Manufacturer for HVAC/ VRV in Patna from Original Equipment Manufacturer of HVAC/ VRV for Work Group No. 12 and 14 of this tender.

(14) **EVALUATION OF FINANCIAL BID**

- i- The financial bid of only those bidders shall be opened who will qualify in evaluation of Technical Bid.
- ii- The rates quoted in Bid sheet B of Financial bid work group 12 and 14, shall become a part of financial bid, but shall not be considered for the purpose of evaluation of financial bids of the bidder.
- iii- The Bidder should quote the rates including item of works incorporated in BOQ, all materials, all labour, all taxes, royalty, carriage, tools and plants and contingent expenses.
- iv- It will be presumed that the Bidder has carefully examined & have satisfied himself completely with: nature of works, extent of liability of the work, bill of Quantity specification, conditions of Tender, approved quarries, materials carriage leads, condition of the site of works, means of communication, approach road for access to the works site, availability of site, labor in connection with the completion of work etc. No claim either for cost or for extension of time will be entertained on anyone of these or similar ground.

- v- For the works group 1 to 11 of this NIT, If the overall rate quoted by Bidder is less by or more than 10% of Estimated Cost the tender will be declared invalid and shall be rejected.
- vi- Quantity of items stipulated in Bill of Quantities may increase or decrease.
- vii- If amount of financial bid of bidders are same, work shall be allotted by draw of lots.
- viii- Any information related to tender shall be collected from the office of the related Executive Engineer or Superintending Engineer on any working day.
- ix- Tender incomplete in any respect shall not be entertained.
- x- Conditional Tender shall not be entertained.

(15)

A) CONDITIONS FOR WORKS GROUP GROUP 1 TO 11 OF THIS NIT

- I. On acceptance of tender, it will be obligatory to deposit Initial Security money @ 5% of the amount of the approved tender, in shape of Demand Draft in favour of Director, IGIMS, sheikhpura, Patna-14.Engineer.
- II. If Earnest money already deposited along with the tender is likely to form part of Initial Security Money Deposit, then the Balance Initial Security money shall be deposited to execute Agreement, within 10 (ten) days of issue of letter of acceptance of tender, failing which, the offer shall be rejected and Earnest money forfeited.
- III. Earnest money of the unsuccessful Bidder will be refunded on request by Bidder.
- IV. Power of attorney of authorized signatory and Constitution of firm shall have to be produced by Contractor on demand.
- V. Letters issued through registered post shall be deemed to have been served to the bidder.
- VI. Agreement of works shall be drawn on PWD Form F2 (excluding clause 23).
- VII. Notice inviting Tender and conditions for tender shall form part of Agreement.
- VIII. Agreement shall be executed subject to availability of fund for the job.
- IX. Works shall be executed as per approved design and drawing and as per CPWD specifications. In case of difference of opinion on any issue, the practice laid down in B.I.S. specifications shall be followed.
- X. No construction material or machineries will be supplied by the Department.
- XI. Materials to be used in works shall be got approved in advance in writing by Engineer in Charge.
- XII. Samples of materials including concrete cubes shall have to be tested from the approved Laboratories at Contractor's cost at different stages of works as per direction of the Engineer in Charge.
- XIII. No equipment or personnel will be removed from site without permission of the Engineer in Charge.
- XIV. Contractor shall keep the Construction site neat and accessible for frequent inspection of works. All facilities shall be provided by contractor for checking the works.
- XV. Site Order Book with numbered pages and bearing the certificate of the Engineer in Charge shall have to be maintained by the Contractor at the site of work, and it will have to be produced to the Engineer in Charge, to record any instruction concerning the work. This shall be the property of the Department after the completion of work.
- XVI. Undesirable person or rejected materials shall have to be removed from work site by Contractor immediately.
- XVII. The Contractor shall arrange necessary accommodation, lighting, drinking water and contingent medical aid for labors at his own cost and Contractor shall comply all labor rules prevalent in the locality.
- XVIII. The Contractor shall be responsible for any damage or loss to public property due to negligence of his labor or staff and the damages shall be made good at his own cost.
- XIX. Contractor shall be held responsible for any accident occurring due to negligence at works site and compensation against such accident shall be borne by contractor.
- XX. Deduction @ 5% of the total value of each bill shall be made as Balance Security Deposit, so that, net security deposit at the last stage of payment achieves at 10 % of the total value of work done.
- XXI. No work beyond agreement shall be executed by the contractor unless ordered by the Engineer in Charge in writing in the Site Order Book and the claim for such work shall be submitted regularly in every month. If the claim is not received in the month to which it relates, it shall be treated as debarred and be disallowed.

- XXII. No claim shall be entertained on account of fluctuation in rates, idle labor, non supply of materials or delays due to any other reasons.
- XXIII. All required papers as per eligibility of bid & documents to assign with technical bid must be notarized for this work by Public notary.
- XXIV. All required papers in original must be shown by the bidder only to Executive Engineer (C)/Superintending Engineer, IGIMS on next day at 3.00 PM of opening of technical bid. In case of non production of original documents the bidders will be declared technically non responsive.
- XXV. The Contractors employing trucks for carriage of materials and for other works have to comply with the rules of the Motor Vehicles Act.
- XXVI. The Contractor shall not be entitled to claim or for compensation, for any loss suffered by him due to (A) Natural calamities, (B) Act of enemies, (C) Transport and procurement difficulties or (D) Circumstances beyond the control of the Department.
- XXVII. On Account of Income Tax and VAT certain percentage will be deducted from the bill of the contractor as per Government Rule.
- XXVIII. Royalty Form M and N and related Mining Challan (in original) will be produced along with each bill against minerals consumed during construction.
- XXIX. On non production of Royalty Clearance certificate, necessary recovery on account of royalty charges will be made from the bill of the contractor at the rate prescribed by the Mining Department.
- XXX. Work shall be executed subject to availability of land. No claim shall be entertained in this regard.
- XXXI. Neither any interest shall be paid nor will any claim be entertained on account of delayed payment due to non availability of fund.
- XXXII. The contractor shall have to rectify at his own defective works found during checking or inspection of the higher authorities.
- XXXIII. On completion of works contractor shall have to remove all materials and leave the space tidy and ready for use, all as per direction of Engineer in Charge.
- XXXIV. Agreement of work below Rs.2.00 Crore will be executed on F-2 whereas for work above Rs. 2.00 Crore will be executed as per S.B.D.

Note:- Intending bidders must enclose/upload all required papers as per Technical Bid sheet and Financial Bid Sheet Serially otherwise tender will be declared technically non responsive

15.B) Terms and conditions for work group 12 to 14 of this NIT

- I. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders on his own cost, to acquaint themselves from the nature of the work and nature of the ground and sub-soil, the form and nature of the site, the means of access to the site, the volume of work involved, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their work tender. The bidder shall be deemed to have full knowledge of the site, nature of work etc, whether he inspects it or not. It is to note that and no extra charges for complete work either in civil , electrical or mechanical work, etc will be paid to the contractor. Any misunderstanding or otherwise shall be allowed.
- II. Warranty
All the items covered in the BOQ, shall carry minimum twelve months Onsite Comprehensive Warranty, commencing from the date of completion of entire job. The after – sales service support / warranty services has to be provided at IGIMS, Patna-14. The repairing / rectification, if any of the items under warranty must be done at site only within 24 hours.
- III. The bidder should submit along with the technical bid, the detailed plan for providing installation and warranty services at site. Prompt and efficient after sales service must be free within the warranty period.
- IV. The bidders name, dated signature & seal should appear on each page of the Tender Document in the hard copy.
- V. The bidder shall be responsible for the delivery of the material/ equipment to site and shall include in his bid all the necessary arrangements for transport, loading and off-loading (including cranes, lifting tackles, wire rope, winches, slings, etc.) All the necessary arrangement along with material for installation, testing and commissioning to complete the work will be contractor's responsibility. IGIMS will not accept any claims for additional costs in this regard.
- VI. If the contractor or his workmen or employees shall break, deface, injure, or destroy any part of a building, road kerb, fence, enclosure, water pipes, cables, drains, electric or telephone posts, wires, etc. The contractor shall make the same good at his own expenses. IGIMS may cause the same to be made good by other workmen and deduct the expenses of which IGIMS decision is final.

a. Safety

- VII. The successful bidder shall follow the Safety Code and Model Rules for the Protection of health and sanitary arrangement for Workers.
- VIII. The quality of all the materials to be utilized by the successful bidder must be get approved by the Executive Engineer Electrical before utilizing it.
- IX. The successful bidder has to submit daily progress report and submit the measurement of the work to the Executive Engineer Electrical while execution of the work.
- X. The contractor shall submit the program for execution of work, get it approved from the Engineer-In-Charge and strictly adhere the same for the timely completion of the project work before start of the work.
- XI. The rate for all items of work, shall include the cost of all labour, materials and all other inputs involved in the execution of the complete work and nothing extra on any account will be paid to the agency other than his quoted rates.
- XII. While installing or commissioning the contractor or his authorized representative should always be available at the site of work to take instructions from department officers and ensure proper execution of work.
- XIII. The contractor shall maintain in good condition all work executed till the completion of entire work allotted to the contractor. No payment will be made to the contractor for damages caused by rains, floods or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the Owners property and to the work for which the payment has been advanced to him under the contract during the execution of the works.
- XIV. The malba /garbage, removed from the site shall be disposed off by the contractor at any suitable place as directed by the Engineer-In-Charge.
- XV. Material must be properly packed against any damage and insured up to the destination. The material should be directly dispatched to the installation site at IGIMS, Patna -14.
- XVI. All the expenses involved in delivering, unloading etc. the equipment at our site, shall be borne by the Bidder. All aspects of safe delivery shall be the exclusive responsibility of the Bidder. IGIMS will have the right to reject the component/equipment supplied, if it does not comply with the specifications at any point of installation, inspection and testing, EMD is liable to be forfeited and bid is liable to be rejected, if the bidder withdraws or amends impairs or derogates from the tender in any respect within the validity period of the tender.
- XVII. If any equipment/material or part thereof is lost or rendered defective during transit, the supplier shall immediately arrange for the replacement of damaged equipment or part thereof, as the case may be, at no extra cost.
- XVIII. Rates should be quoted towards Supply at site, Unloading, Erection, Commissioning, Testing and Maintenance of Supplies / Materials given under BOQ, accordingly by giving the basic price, VAT, Service Tax, etc. wherever applicable.
- XIX. Along with slandered deduction, 1% labour cess will be deducted of the completed work as per prevailing Bihar state government rules.
- XX. IGIMS shall have the sole right to assess the performance of the tendered equipment(s) /components, primary / intermediate and or final, and reject the same without assigning any reason / explanation to the bidder if the performance is found to be unsatisfactory. The decision of IGIMS will be final and binding on the contractor.
- XXI. Price basis should be FOR IGIMS Patna only. The quoted price will be considered firm and no price escalation will be permitted.
- a. SECURITY DEPOSIT
- XXII. The amount of Security Money shall be 10% (Ten Percent) of the work order Value- and deduction/deposit shall be made in following manner.
- XXIII. Initial Security Deposit of (Five Percent) of the accepted/agreed value, which has to be deposited by the contractor through D. D. payable to Director IGIMS Patna and remain with IGIMS till expiry of warranty period.
- XXIV. Balance 5% (Five Percent) Security Money shall be deducted from each running account bill of work done under this work order.
- XXV. Security deposit shall be refunded after expiry of warranty period (12 months from the date of completion of work order) provided, there are no defects in work and removed all surplus material, rubbish from site. The Security deposit shall be totally non-interest bearing and the bank guarantee, if furnished, shall also not entail any liability towards bank interest, money or bank charges etc. on IGIMS.
- XXVI. Payment
- a. For work Group. no 12 and 14 of this tender, 60 % payment of agreed amount of non schedule items may be released after receipt and satisfactory inspection of material at site by executive Engineer Electrical through M.B. Rest amount will be paid after satisfactory completion of work through M.B.

- b. For group no 13 of works of this tender, the payment will be released after satisfactory completion of complete works as per agreement through Measurement book.
 - c. Security deposit will be released after two months beyond warranty period. All the payment shall be made on actual measurement basis.
- XXVII. Compensation for Delayed Services
- a. In the event of the contractor failing to comply to complete work within the completion period shown against the each work in the tender and which starts from the day of handing over the written order to the contractor he shall be liable to pay as compensation an amount equal to 0.5% on the amount of the estimated cost of the whole work per day that the due quantity work remains incomplete provided that the entire amount of compensation to be paid under this provisions of this clause shall not exceed 10% of total order value for the work.
- XXVIII. The contractor shall clear the site thoroughly of all scaffolding materials and rubbish etc. left out of his work and dress the site around the building to the satisfaction of the Engineer before the work is considered as complete.
- a) The quoted rate shall be complete in all respects including the cost of all materials, labour, tools & plants, machinery etc. IGIMS shall not be supplying any material, labour, plant etc.
 - b) The contractor has to ensure co-ordination with Institute authorities to maintain the smooth functioning / operation of existing Institute timing without disruption during the execution of work. This may require working rescheduling the normal working hours, working in restricted period etc. Nothing extra shall be payable on this account.
- XXIX. Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required shall have to be done by the contractor at his own cost.
- XXX. In the case of any tender where unit rate of any item/ items appear unrealistic, such tender will be considered as unbalanced and in case the bidder is unable to provide satisfactory explanation such a tender is liable to be disqualified and rejected.
- XXXI. On account of security consideration, some restrictions may be imposed by the security staff on the working and movement of men and materials etc. The contractor shall be bound to follow all such restrictions/ instructions and he shall organize his work accordingly. No claim on this account, whatsoever, shall be payable.
- XXXII. The contractor shall be responsible for completing the work and for satisfying all terms and conditions of the Contract without any extra payment over his quoted rates unless otherwise specified. The contractor shall quote his rates for various items of work accordingly and no claim whatsoever shall be entertained for any incidental or extra work involved in the execution of the work as per nomenclature of the item and the specifications indicated in the tender documents.

Special terms and conditions:

- i. FRLS wiring shall be used everywhere inside/outside all panels/equipment/building.
- ii. Copper material (strip, plate, etc.) shall have conductivity greater than 95% in all applications.
- iii. Each Earth conductor (for earthing) shall not left bare it will be through ISI mark PVC pipes to avoid corrosion & mechanical injuries.
- iv. All meters of whatever type shall be of digital type unless & otherwise specified.
- v. 440 Volt LT panels shall be of 16 SWG CRCA sheet with 7 tank treatment process.
- vi. Failure on the part of the client to inspect or to reject after inspection any work, which later proves to be defective, shall not relieve the Contractor from warranties, commitments and obligations, which he undertakes under this contract. The Contractor is solely responsible for the accuracy, quality and completeness of his work and supply.
IGIMS at his discretion shall order re-inspection of the whole / part of the material found faulty during inspection. The Contractor shall attend to all the comments noted by IGIMS.
- vii. The Contractor shall include and provide for securely protecting and packing the equipment in accordance with the best established practices so as to protect the contents from damage during transit, storage, exposure to heat, moisture or rain.
Notwithstanding the above, the Contractor shall be entirely responsible for loss, damage or deterioration to the materials occasioned by faulty, defective or insecure packing.

- viii. If required obtaining approvals from Electrical Inspector, Local Electricity Supply Authority and all other statutory authorities for the complete scope of work is contractor's responsibility. It is not the intent to specify completely here in all aspects of design and constructional features of equipment and details of the work to be carried out nevertheless, the equipment and work shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing and continuous commercial operation in a manner acceptable to the owner who are interpret the meaning of the specifications and drawing and shall have right to reject or accept any work or material which in his assessment is not complete to meetings requirement of these specifications and or applicable codes and standards mentioned elsewhere in these specifications.
- ix. All sundry fittings, assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections as required, and all other sundry items which are useful and necessary for proper assembly and efficient working of the various components of the work shall be deemed to have been included in the tender, whether such items are specifically mentioned in the tender documents or not.
- x. Engineer-in-Charge and authorized representative shall have at all reasonable times access to the Contractor's premises or works and shall have the power at all reasonable time to inspect and examine the materials and workmanship during its manufacturer or erection or if part of works is being manufactured or assembled at other premises or works.
- xi. The Contractor shall arrange all the materials and labour required for inspection of equipment or for any testing to be carried out at his works or at site. Notice for such inspection/presence for testing shall be given to the Engineer-in-Charge by the Contractor at least fifteen (15) days in advance.
- xii. Notwithstanding approval of tests or equipment by the Engineer-in-Charge the contractor shall be required to perform site tests and prove the correctness of ratings and performance of equipment/machinery and materials supplied and installed by the contractor as per the contract specifications and conditions. Engineer-in-Charge shall reserve the right to reject any equipment/machinery/material should it, on tests after erection, be found not to comply with contract specifications. Engineer-in-Charge shall have full power to order the material or work to be tested by an independent agency at the electrical Contractor's expense in order to prove soundness & adequacy.
- xiii. All quantities indicated in BOQ are tentative which may vary as per site conditions. Contractor has to verify quantities before procuring the material.
- xiv. All materials and equipment shall be brand new. On arrival of the materials at site they shall be inspected and tested by the Engineer-in-Charge and his representative shall at all reasonable time have free access to the site of assembly. They shall have full powers to examine the materials and workmanship of the equipment at the contractor works or at any other place from where the material or equipment is obtained. The contractor shall give every facility to the engineer-in-charge and his representatives and necessary help for inspection, examination & testing of the materials. Original test certificates of the manufacturer's shall be submitted by the Contractor for all major equipment before they are accepted by the Engineer-in-Charge. Acceptance of any material or equipment shall in no way relieve the Contractor of his responsibility for meeting the requirements of the contract.
- xv. Electrical work done under this contract shall be executed by licensed men under the supervision of licensed electrical supervisor as per the Indian Electricity act.
- xvi. Contractor shall obtain the approval of all electrical installation done under this contract from the appropriate competent authority before the installation and commissioning if required as per rules.
- xvii. All tools and tackles required for handling of equipment and materials at site of works as well as for their assembly, erection, commissioning and also necessary test instruments shall be the responsibility of the contractor.
- xviii. The Contractor shall provide for the tendered equipment comprehensive warranty for parts as well as labour for a period of 12 months from the date of successful installation & commissioning of the equipment at Purchaser's site at no extra charges against any manufacturing defect/faulty workmanship. In case any defect arises during warranty period, the Contractor should replace/rectify the same at its own cost at site/works.
- xix. The Contractor shall provide Annual comprehensive maintenance for all the spares HVAC/VRV Air conditioning units as well as labour for a period of 5 years from the date of expiry of warranty period at IGIMS site at extra charges of CMC as quoted in Financial bid B of work group 12 & 14. This CMC will cover replacement of all the defective spares, parts including compressor and attend any defect within 24 hrs. It also covers the preventive maintenance of these Air conditioners. In case any defect arises during that period, the Contractor is liable to replace/rectify the same to original at its own cost at site/works.

- xx. Bidder will quote and upload their lowest for schedule items in percentage and lowest item rate for non-schedule items in the financial bid. Hard copy of same is to be submitted in the separate envelope indicating "Price bid".
- xxi. A Detailed Bar Chart shall be submitted by the contractor before actual commencement of the work. The tendered rates/prices for the work shall be deemed to include the cost of preparation, supply and delivery of all necessary drawings, prints, tracings and negatives which the Contractor is required to provide in accordance with the contract.
- xxii. The bidder is supposed to quote the rates for Comprehensive maintenance of the HVAC / VRV outdoor, indoor units and ducts quoted in its respective Bid sheet B of Financial bid work group of 12 and 14 of this NIT.

IT shall become a part of financial bid, but shall not be considered for the purpose of evaluation of financial bids of the bidder.
- xxiii. The successful bidder of the work group 12 and 14 of this NIT has to submit a detailed plan and drawing of complete air conditioning system which includes the position and location of outdoor and indoor units. The detailed dimension of air ducts (if any), its position, thermal insulation and acoustic insulation its structural support, sheet gauge, etc duly approved by the OEM Engineer of HVAC/ VRV, before commencement of actual work. This needs to be approved by the Engineer in charge IGIMS Patna after proper verification.

Sd/-
DIRECTOR
IGIMS, PATNA