



आरोग्यम् सुखं सम्पदा

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES RAIPUR**

**OFFICE OF  
THE EXECUTIVE ENGINEER  
PROJECT CELL AIIMS, RAIPUR**

**NOTICE INVITING TENDER**

**N.I.T. NO. 34/EE/AIIMS/RPR/2018-19**

**Date: 19/12/2018**

**NAME OF WORK: - "Supply, Installation, Testing and Commissioning of 04 Nos. 02 Ton Inverter Type Split AC, 5 Star, R-410a Refrigerant at VRDL (Microbiology Dept.) Medical College, AIIMS Raipur."**

**ESTIMATED COST**

**PUT TO TENDER: Rs. 2,42,181/-**

**EARNEST MONEY: Rs. 4,844/-**

**TIME ALLOWED: 30 (Thirty) Days**

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Issued to & Submitted by: \_\_\_\_\_

Mobile No / E-mail id: \_\_\_\_\_

Address: \_\_\_\_\_

Junior Engineer-(AC & R)

Consultant-(Electrical)

Approved by

*[Handwritten Signature]*  
19/12/2018

Executive Engineer (Civil)  
AIIMS RAIPUR

**PRESS NOTICE**

The Executive Engineer, Project Cell AIIMS, Raipur invites on behalf of AIIMS, Raipur offline percentage rate tenders from reputed specialized agency for the following work at office of SE Project Cell, AIIMS Raipur

Sl. No.	NIT No.	Name of work & Location	Estimated cost	Earnest Money	Period of Completion	Time & Date of submission of Tender	Time & Date for Opening Of Technical & Eligible Credential	Financial bid opening will be intimated to the eligible bidder.
1	2	3	4	5	6	7	8	9
1	34/EE/AIIMS/RPR/2018-19	"Supply, Installation, Testing and Commissioning of 04 Nos. 2 Ton Inverter Type Split AC , 5 Star , R-410a Refrigerant at VRDL (Microbiology Dept) Medical College, AIIMS Raipur."	₹ 2,42,181/-	₹ 4,844/-	30 (Thirty) Days	Upto 3:00 PM on 27-12-2018	03:30 PM on 28-12-2018 Onwards.	By e-Mail Only

The tender forms and other details will be issued from the office of The Executive Engineer, Project Cell AIIMS, Raipur during the hours of 10AM to 5PM every day except on Sunday & public holiday and on Saturday upto 01:00 PM on submission of the following :-

**Rs.500/-** in form of treasury Challan / Banker's cheque Deposit at Call Receipt of a Scheduled Bank / Fixed Deposit receipt of a Scheduled Bank / Demand Draft of a Scheduled Bank issued in favour of "AIIMS Raipur" as cost of tender (non-refundable) shall be submitted by the contractor after the issue of tender document after verification by office of Executive Engineer (Civil).

- ✓ The enlistment of the contractors should be valid on the last date of sale of tenders.
- ✓ In case only the last date of sale of tender is extended, the enlistment of contractor should be valid on the original date of sale of tenders.
- ✓ In case both the last date of receipt of application and sale of tenders are extended the enlistment of contractor should be valid on either of the two dates i.e. the original date of sale of tenders or on the extended date of sale of tenders.
- ✓ The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- ✓ Tender form will be issued to authorised person of the firm only.

## CRITICAL DATE SHEET

Uploading on Website	<b>19-12-2018</b>
Bid Document Sale Start Date	<b>19-12-2018</b>
Last Date for Purchase Tender form	<b>27-12-2018</b>
Bid Submission Last Date	<b>28-12-2018 at 03:00 PM</b>
Bid Opening Date	<b>28-12-2018 at 03:30 PM onwards</b>

**Criteria of eligibility for issue of tender documents:-**

**1. Condition for bidders.**

(i) The Applicant should have Experience of having successfully completed works in any govt. semi govt & PSU's during the last (07) **Seven Years** ending previous day of last date of submission of tender:

- (a) Three similar completed works costing not less than the amount equal to 40% of estimated Cost Put to tender,  
Or
- (b) Two similar completed works, costing not less than the amount equal to 60% of the estimated Cost put to tender,  
Or
- (c) One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.

**“Similar works” means works of AC & R**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of tenders.

**2. Submission of tender: -**

Tender shall be submitted in following manner:

**2.1 Eligibility criteria to be submitted by bidders.**

2.1.1 The following documents showing eligibility criteria are required to be submitted by the Bidder during purchase of tender documents with self-attested photocopies by application in the name of Executive Engineer, AIIMS, Raipur. Tender form will be issued only after verification of all documents from original.

- a) Tender Cost for original documents.
- b) PAN Card
- c) Firm/Company registration certificate with validity.
- d) GST registration certificate.
- e) Tenderer must provide a certificate on letter head that proprietor /firm has never been black listed by any organization
- f) Form A (Structure and Organisation details) with duly filled by bidder.

2.2 The Financial Bid shall be placed in sealed envelope with EMD in form of treasury Challan / Banker's cheque Deposit at Call Receipt of a Scheduled Bank / Fixed Deposit Receipt of a Scheduled Bank / Demand Draft of a Scheduled Bank issued in favour of "AIIMS Raipur".

**While applying for issue of tender document, please ensure that all eligibility criteria documents shall be submitted in self attested photocopies and shall also be presented in original for verification. Tender document will be issued only to those contractors who fulfil the above criteria within time limit as mentioned in "Press Notice"**

Er. Manoj Rastogi  
Executive Engineer (Civil)  
AIIMS Raipur

**FORM – “A”**

**STRUCTURE & ORGANISATION  
(TO BE SUBMITTED BY BIDDER)**

1. Name & address of the Bidder :-
2. Telephone No. / Telex No. / Fax No.
3. Legal status of the Bidder (Attach copies of original document defining the legal status)
  - (a) An Individual.
  - (b) A Proprietorship Firm.
  - (c) A Partnership Firm (Bidder should submit the relevant documents regarding authorised signatory)
  - (d) A Limited Company or Corporation

4. Particulars of registration with various Government Bodies (Attach attested photocopy)

**Organization/Place of Registration**

**Registration No.**

- 1.
- 2.
- 3.

5. Names and titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization.
7. Has the Bidder, or any constituent partner in case of partnership firm, Limited Company / Joint Venture, ever been convicted by the Court of Law? If so, give details.
8. Any other information considered necessary but not included above.

Signature of Bidder (s)

**Note-** In case of Partnership Firm or Company the relevant documents i.e. Partnership Deed, POA, etc. should be submitted and verified with Original as well.

## Terms and Conditions

1. The intending bidder must read the terms and conditions of tender document carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents / certificates required.
2. Information and instructions for bidders posted on web site shall form part of bid document.
3. The bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and these to of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in)
4. The authority competent to approve NIT for the combined cost and belonging to the Major discipline will consolidate NITs for calling the bids. He will also nominate a committee which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.
5. Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified.
6. **To become eligible for issue of bid, contractors shall have to furnish an affidavit as under: -**  
  

*"I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee".*
7. Agreement shall be drawn with the successful bidders on prescribed Form of **AIIMS, RAIPUR** which is available on website [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in) **Bidders** shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
8. The time allowed for completion of work will be **Thirty (30) days**.
9. The site for the work is available.
10. The Bidder(s)/Tenderer should also furnish their Office Address along with contact number and E-mail address on all the three Envelope(s) for reference.  
The Tender paper/documents can be dropped on Tender Box available in Office of **Executive Engineer, 1<sup>st</sup> Floor, Hospital Administrative Block, Gate No. 01, AIIMS, Tatibandh, Raipur (C.G.) 492099**. For any query, **Executive Engineer (Civil), AIIMS, Raipur, Phone: 0771 - 2572929** may be contacted.
11. The bids submitted shall be opened at **3.30 PM on 28/12/2018 onwards**.

12. **The successful Contractor will require furnishing a Performance Guarantee of 5% (Five Percent) of Contract Value after receiving Letter of Acceptance in the form of Demand Draft/Fixed Deposit Receipt or Bank Guarantee from any nationalized Bank duly pledged in the name of "AIIMS, RAIPUR" which shall be kept valid for a period of 60 (Sixty) days beyond completion of all the Contractual Obligations. The Performance Guarantee can be forfeited by order of this Institute in the event of any breach of negligence or non-observance of any condition of Contract or for unsatisfactory performance or non-observance of any condition of the Contract.**

**Performance Security will be discharged after completion of Contractor's Performance Obligations (including Warranty/Guarantee Period i.e. minimum 01 year) under the Contract.** In case the Contractor fails to deposit the said Performance Guarantee within the period including the extended period if any, the Earnest Money deposited by the Contractor shall be forfeited automatically without any notice to the Contractor. The format for Performance Security/Bank.

13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub soil (so far as is practicable), the form and nature of the site, the mean suffices to the site, 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 bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

14. The Competent Authority on behalf of **Director, AIIMS, RAIPUR** does not bind itself accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

16. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

17. Delayed/Late/Conditional quotations/Tenders shall not be accepted at all.

18. (a) The Income Tax (TDS) as applicable shall be deducted from the Bill unless exempted by the Income Tax Department.

The quoted rates shall be inclusive of all taxes (i.e. GST, etc.)

Labour Cess will be deducted as per rule.

19. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in RAIPUR (Chhattisgarh), India only.
20. Bidder shall submit a copy of the Tender Document and Addendum/Corrigendum thereof if any, with each page of this document should signed and stamped to confirm the acceptance of the entire Terms & conditions as mentioned in the Tender Enquiry document.
21. All the work should be done as per CPWD Specification and relevant Codes up-to-date.



## **GENERAL & COMMERCIAL TERMS AND CONDITIONS**

**Name of work: - Supply, Installation, Testing and commissioning of 04 Nos. 2 Ton Inverter Type Split AC, 5 Star, R-410a Refrigerant at VDRL (Microbiology Dept.) Medical College, AIIMS Raipur.**

### **1.0 GENERAL**

The work shall be executed as per CPWD's general specification. The additional specifications are to be read with above and in case of any variations; specifications given along with the tender shall apply.

### **2.0 LOCATION**

The work is to be executed at **VRDL (Department of Microbiology) at AIIMS, RAIPUR (Chhattisgarh)**. The contractor is advised to visit the site before submission of their tender and ensure that equipment being offered by them shall be accommodated in the spaces available.

**3.0. The contractor has to carry out routine and preventive maintenance as per manufacturer's standards for a period of 12 months from the date of handing over.**

### **4.0 Type of Contract:**

The work to be awarded by this tender shall be treated as indivisible works contract.

### **5.0 IMPORTANT POINTS FOR THE ATTENTION OF TENDERERS COMMERCIAL CONDITIONS:**

- 5.1 The tenderers are advised not to deviate from the technical specifications/ items, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration clause, escalation etc.
- 5.2 Tenders shall be opened by Executive Engineer, AIIMS Raipur on the due date and time in the presence of tenderers or their authorized representatives who wish to remain present.
- 5.3 AIIMS Raipur reserves the right to reject any or all the price bids and call for fresh prices/ tenders as the case may be without assigning any reason.

### **6.0 CONFORMITY WITH STATUTORY ACTS, RULES, STANDARDS AND CODES:**

All components shall conform to relevant Indian Standard Specifications, wherever existing, amended to date.

### **7.0. SAFETY CODES AND LABOUR REGULATIONS:**

- 1) In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD codes and instructions issued from time to time. Contractor shall ensure safety & Precautions during Testing, Charging etc. Failure to provide such safety requirements would make the tenderer liable for penalty for Rs.200/- each violation. In addition the Engineer-in-charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.

- 2) The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work of Split AC Installation. Cables etc. or wherever necessary so as to avoid accident.
- 3) He shall also indemnify AIIMS Raipur against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause. AIIMS Raipur shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

#### **8.0 WORKS TO BE DONE BY THE CONTRACTOR**

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost – whether specifically indicated in the schedule of work or not:-

1. **Necessary foundation for Split AC set will be done by Contractor.**
2. Making good all damages caused to the structure during installation and restoring the same to their original finish.
3. Minor building works necessary for installation of equipment's, cable, making of opening in all's or in floors and restoring them to their original condition/finish and necessary grouting etc., as required.

22. **Contractor shall have to submitted Test Certificate of all parts i.e. Compressor, Condenser ,Evaporator etc.**

#### **8.0. POWER SUPPLY AND WATER SUPPLY**

##### **8.2. Power Supply**

2. The contractor shall not use the power supply for any other purpose than that for which it is intended for. No major fabrication work shall be done at site. Power shall be used only for Welding/cutting works. The power supply shall be disconnected in case of such default and the contractor shall then have to arrange the required power supply at his cost.

##### **8.3 Water Supply**

Water supply shall be made available to the contractor by the Department free of charge at one point.

#### **9.0. MACHINERY FOR ERECTION**

All tools and tackles required for unloading/handling of equipment's and materials at site, their Assembly, erection, testing and commissioning shall be the responsibility of the contractor.

## **10.0. COMPLETENESS OF THE TENDER, SUBMISSION OF PROGRAMME, APPROVAL OF DRAWINGS AND COMMENCEMENT OF WORK.**

### **1. Completeness of Tender**

All equipment's, fittings, assemblies, accessories, hardware items, foundation bolts, supports, Insulation, Drain Pipe, cable 3 Pin Top 16 Amp for each AC and all other items for proper assembly and installation of the various equipment's and components of the work shall be deemed to have been included in the tender, irrespective of the fact that whether such items are specifically mentioned in tender documents or not.

### **2. Submission of Programme**

Within ten days from the date of receipt of the letter of acceptance, the successful tenderer shall submit his programme for submission of drawings, supply of equipment's, installation, testing, commissioning and handing over of the installation to the Engineer-in-Charge.

### **3. Submission of drawings**

The contractor shall submit the drawings to the Engineer-in-Charge for approval before start of work.

### **4. Commencement of Work**

The contractor shall commence work as soon as the drawings submitted by him are approved.

## **11.0. DISPATCH OF MATERIALS TO SITE AND THEIR SAFE CUSTODY**

The contractor shall dispatch materials to site in consultation with the Engineer-in-Charge. Suitable lockable storage accommodation shall be made available free of charge temporarily. Watch & ward, however, shall be the responsibility of contractor. Programme of dispatch of material shall be framed keeping in view the time frame for completion of work..

## **12.0. CO-ORDINATION WITH OTHER AGENCIES**

The contractor shall co -ordinate with all other agencies involved in the work so that the work of other agencies is not hampered due to delay in his work.

## **13.0. INDEMNITY**

The successful tenderer shall at all times indemnify AIIMS Raipur, consequent upon this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising therefrom on AIIMS Raipur during the period of erection, construction and putting into operation the equipment's and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

#### **14.0. QUALITY OF MATERIALS AND WORKMANSHIP**

- 1) The components of the installation shall be of such design so as to satisfactorily function under all conditions of operation.
- 2) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to cause minimum transmission of noise and vibration to the Hospital campus building structure.
- 3) All equipment's and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.

#### **15.0. CARE OF THE BUILDING**

Care shall be taken by the contractor during execution of the work to avoid damage to the building. He shall be responsible for repairing all such damages and restoring the same to the original finish at his cost. He shall also remove all unwanted and waste materials arising out of the installation from the site of work from time to time.

#### **16.0. INSPECTION AND TESTING**

It shall be as per CPWD Specifications, Split AC will remain 72 hours on Testing Mode after installation of AC System . Temperature and Humidity Required – 22.C -24 .C and 50-60 RH%

#### **17.0. Safety Measures.**

All equipment's shall incorporate suitable safety provisions to ensure safety of the operating personnel as per manufacturers' standard practice.

#### **18.0. GUARANTEE**

All equipment's shall be guaranteed, against unsatisfactory performance and/or break down due to defective design, workmanship or material, for a period of **12 months** from the date of taking over the installation by the department. The equipment's or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in attending the defect/fault removed, the same will be got done by the department at the risk cost of the contractor. The decision of the Engineer-in-Charge in this regard shall be final.

#### **19.0. PAYMENT TERMS**

Payment will be made after successfully work done as per CPWD Specification.

## **SECTION – F: TECHNICAL SPECIFICATIONS**

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### **1.0 Scope**

1.1 Supply Installation, testing and commissioning of the split air-conditioners meeting in all respects the intents of the specifications. The supply of the units shall comprise:

5. Outdoor unit
6. Indoor Unit
7. Refrigerant piping connecting the two and drain piping
8. Electrical wiring from the socket – outlet through the indoor and outdoor units with provision for local remote control.

### **2.0 Outdoor Unit**

- 2.1 The outdoor condensing unit shall comprise a compressor, condenser coil, condenser fan, refrigerant connections and a casing. The compressor shall be hermetic type resiliently mounted for quiet operation. The compressor drive shall be a single phase motor refrigerant cooled and shall have an inbuilt over load protector. The unit shall be capable of frequent starting and stopping without causing any over load..
- 2.2 The condenser coil shall be a copper tube with aluminium fins. The tube diameter shall be not less than 10mm with a wall thickness of 0.4 mm copper. Tube shall have aluminium fins adequately bonded through a process of mechanical expansion. The number of fins shall not exceed 520 per meter (13 per inch) and the number of rows in each case shall be for the specified output. The condenser fan shall be a multi-blade propeller type designed for low noise and directly driven by a totally enclosed fan motor. The refrigerant connections shall be brought out into plain stub ends.
- 2.3 All the components shall be enclosed in a casing formed from heavy gauge 1.6mm galvanized sheet steel totally rust inhibited.

### **3.0 Indoor Unit**

- 3.1 The indoor unit shall be versatile and shall be capable of mounting on the ceiling with simple site alteration. The unit shall consist of an evaporator fan and motor, evaporator coil, wherever shown in drawing additional drain tray, air filter, outlet for duct connection and controls shall be provided.
- 3.2 The evaporator fan shall be double inlet, double width centrifugal forward curved impellers statically and dynamically balance. The impellers shall be mounted on either side of a double shafted 2/3 speed motor directly driving the fans. The fans shall be housed in a sheet steel a high impact ABS plastic enclosure which is acoustically treated. The evaporator coils shall be similar to the condenser coil and made of copper tube with aluminium fins and the refrigerant lines brought out to plain stub ends within the unit casing.

All split air conditioner should have of the following controls.

High Pressure Cut Out.

Low Pressure Cut Out.

Protection for motor.

Over load protector.

#### **4.0 Installation**

- 4.1 The outdoor unit shall be installed as decided by the Engineer in charge. The indoor unit shall be wall mounted as shown on drawings/ as per the requirement of client.
  - 4.2 Refrigerant lines shall be inconspicuously and generally as shown in the drawings and as directed on site. All power wiring shall be drawn from the nearest socket outlet and shall include the control wiring, power wiring.
  - 4.3 All pipe sizing shall be done taking into account the length and rise.
23. drain pipe shall be provided as per specification and as per direction in charge .

#### **5.0 Testing**

- 5.1 The unit shall be tested for establishing the capacity and power consumption. Tests shall be carried out in accordance with IS 5141 – 1969 (revised upto date) computed results shall tally with specified capacity and power consumption figures furnished with the tender.
- 5.2 On completion of piping the system and the piping shall be tested using Nitrogen gas by raising the pressure to 1.5 times the working pressure and holding the test pressure for 10 hours.
- 5.3 Tests shall be carried out on
  - 1 the compressor and drive motor side
  - 2 condenser side for heat rejection
  - 3 Cooling coil for cooling capacity
  - 4 Evaporator air volume
- 5.4 A test certificate from prototype factory tests will be acceptable.

#### **6.0 Mode of Measurement**

- 6.1 Each unit shall be measured as one item of work which shall consist of:
  - 3. Outdoor unit
  - 4. Indoor unit
  - 5. Refrigerant and drain piping (with insulation)
  - 6. Electrical power control wiring, room thermostat and control panel
  - 7. Refrigerant charge & oil
  - 8. Erection
  - 9. Commissioning and testing

1. **REFRIGERENT PIPING.**

7.1 Scope.

The scope of this section covers supply, installation of refrigerant piping & drain piping with insulation as specified here & as shown in the drawings.

7.2 Refrigerant copper Piping

Refrigerant pipe shall be made of Copper. Copper tubing shall be used to make connections to equipment's wherever required. Flare fittings e.g. flare nuts; tees, elbows, reducers etc. shall be of brass.

The pipes and fittings shall be connected by means of welded joints. The connections to gauges, controls etc. (if any) shall be with soft copper tubing and flare fittings.

Refrigerant piping routing shall be decided by Engineer – in – Charge. The refrigerant piping installation shall be as per drawing.

7.3 Drain Piping.

All condensation drainage shall be pitched in the direction of flow to ensure adequate drainage with an adequate trap seal to prevent leakage / infiltration.

Provide minimum 20 mm for a smooth drainage of condensate.

Condensate drain piping fixing shall be as per drawing.

The routing of Drain Piping shall be decided by Architect/ Engineer – in – Charge.

Drain piping supporting shall be as per drawing.

7.4 Suction line & Discharge line Insulation.

The Suction Discharge line Line shall be insulated with 10 mm thick. Nitrile Rubber Insulation covered with tap.

7.5 Drain Piping.

Drain Piping as per specification.

7.6 Mode of Measurement.

Refrigerant pipes with insulation shall be in linear measure along the centre line of the pipe including accessories, supports etc and paid for per RMT.

Condensate drain pipes with insulation shall be in linear measure along the center line of the pipe including accessories, supports etc and paid for per RMT.

**SPECIFICATIONS FOR 1.5 TR INVERTER TYPE SPLIT AC UNITS**

Technology	:	Variable speed compressor motor
Cooling capacity	:	5500 Kcal/hr as per IS 1391 (Minimum)
Minimum Room air Flow	:	700 m <sup>3</sup> /hr
Energy Efficiency as per ISEER	:	3.5 to 3.99
Air Circulation In	:	700 CFM (Minimum)
Colour	:	White
Refrigerant	:	R 410A /407 A
Power supply (Phase/Voltage/Frequency):		1/230/50
Type	:	Invertor Type Split AC
Power input	:	1980 w
Warranty of AC	:	One Year
Servicing	:	4 Times in a year
Warranty of Compressor	:	Five Year
Make	:	Voltas / Carrier / Daikin/ Blue Star /Hitachi /Lloyd /LG / Samsung /General/ Mitsubishi



## 1 INSTRUCTION

### 1.1 General:

- 1.1.1 The Air conditioner and its parts shall be constructed with the strength and rigidity adequate for normal conditions of handling, transport and usage.
- 1.1.2 There shall be no sharp edges or corners liable to cause injury under normal conditions of use and all moving parts which constitute accident hazards shall be effectively guarded.
- 1.1.3 Parts which require periodic servicing shall be readily accessible.

### 1.2 Material:

- 1.2.1 Materials used in the construction of cabinet, front panel etc. shall comply with the corresponding Indian Standards wherever applicable except where such requirements are modified.
- 1.2.2 The material shall be free from defects which are liable to cause undue deterioration or failure.
- 1.2.3 Under normal conditions of use and maintenance, the materials used shall not shrink, deteriorate, warp or cause mould or odours and shall be resistant to attack of vermin and destructive pests.
- 1.2.4 Sealing and insulating material shall not lose their essential properties such as adhesion, moisture and heat resistance.
  - 2.1.2 Internal and external finishes shall be capable of being cleaned effectively without undue deterioration and shall be such as to afford protection against climatic action in all seasons under normal use. All metal parts which are exposed to moisture or ambient conditions shall be corrosion resistant or adequately protected against corrosion.

## 2 REFRIGERANT CIRCUIT:

- 2.1 The refrigerant pipes and fittings shall be of approved quality and shall withstand normal working pressure of air conditioners.
- 2.2 The refrigerant uses shall be chemically pure, free from moisture or any other chemical contamination.
- 2.3 The condenser and evaporator coils shall be made of copper.
- 3. Air conditioners suitable for 230V, 50 Hz single phase AC supply shall be capable of performing the functions as cooling, dehumidifying, air circulating and filtering. The Air conditioners shall be provided with adjustable step less type electronic thermostat.
- 4. Outdoor unit of the air conditioners shall be fitted with discharge cooled type rotary Compressor operating , refrigerant R-410A with suitably rated variable speed motor. It shall be equipped with overload protection and shall be mounted on resilient mountings for quiet operation. The Rotary compressor shall be of Matsushita/Hitachi/Toshiba GMCC/Carrier/ Emerson /LG/ Tecumseh/Danfoss make and shall be covered by manufacturers test certificate and Type Test Certificate according to JIS or ASHRAE.
- 5. Remote cordless control with LCD/LED Display shall be provided with one On/Off timer, selecting fan speed (three speed) and setting up of temperature. Display shall be provided on indoor unit or on handset or on both.
- 6. Air conditioners shall be provided with standard 5 mtrs refrigerant Copper pipe, electrical wire and drainage pipe.
- 7. The indoor unit shall be provided by washable anti-bacterial and dust filters
- 8. **Servicing:** Free servicing shall be provided for 15 months from the date of supply or 12 months from the date of installation of air conditioner whichever is earlier. Firm is also required to send service engineer at least 3 times during the warranty period.

9. **Manufacturer's Guarantee:** Compressor shall have minimum 5 years warranty from the date of Installation . The manufacturer shall give a guarantee for the soundness of construction and performance of the air conditioner and shall be responsible for putting right any manufacturing defects free of charge for a period of 15 months from the date of supply or 12 months from the date of installation of air conditioner, whichever is earlier.
10. **Installation:** The installation charges shall include the following work: -
- i) Mounting/Fitting indoor and outdoor units at the respective locations.
  - ii) Laying refrigerant piping of required length and connecting both the units after drilling hole/holes in the wall, if required.
  - iv) Charging Refrigerant gas in the unit.
  - v) Suitable electric wiring between indoors and outdoors units of required length up to switch at location of indoor unit. Switches/sockets/plugs are not included in the scope of supply.

**Note: Manufacturer's test certificates of all AC system spare parts etc. are required at the time of supply. The year of manufacturing should be current or not earlier than six months from the date of opening of Tender.**

**Format II****EXPERIENCE**

(Experience of relevant and similar work completed during last Seven years and ongoing works) Use separate sheet for each work.

1.	Project title & Location:	
2.	Name of the Client and Address:	
3.	Describe area of Participation (Specific Work done/Services rendered by the applicant)	
4.	Period of Work Done	
5.	Total cost of work	
6.	Status of the work undertaken.	
7.	Any other details	

**NOTE:**

Supporting documents like certificates from the client may be attached.

Authorised Signatory of the Firm/ License Holder Contractor

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**On the Non-Judicial Stamp Paper of Rs.100/-****AFFIDAVIT**

I / We (Name of Person / Persons who presenting the affidavit) M/s ..... (Name of Contractor's Firm / Company) ..... (Executing as a company / firm ) who fulfil all the formalities who filling the affidavit works as a firm / Company, by this affidavit certify / certified that AIIMS, Raipur by inviting tender information Tender No. .... for (Name of work) ..... for Dated..... in the capacity of inviting to the Tenders in tender documents, regarding the following information in certificates / documents presented, in that I / we personally agreed that we have given all the information, documents & certificates are true to our belief and I / we are fully responsible as :-

- (1) It is to certify that all the information given in this affidavit are true and correct.
- (2) That I / we presented by us,
  - (a) Amount submitted for Tender fees and original EMD in the form of Demand Draft and relevant Documents are true.
  - (b) Information given regarding with the Financial Qualifications & Annual Turnover is true & correct.
  - (c) Information regarding Work in Hand is true.
- (3) I / We have not **Black Listed / Debated** by Govt. of India / any Government of State Govt. / Department of State Govt.
- (4) That, My / Our Firm's / Company's No relative / any nearest relative is working in this firm.

**OR**

Nearest relative works as follows:-

Name ..... Post ..... Present Post-Establishment

- (5) that, the **No Criminal Case** has been registered or ongoing by any court against me/our/ firm.

Certified by Public Notary

With their Seal &amp; Sign

Signature with Seal

**Technical Bid (Check List)**[In separate sealed Cover (*Envelope – 1*) superscripted as “**Technical Bid**”]

Ser. No.	Details of the Tenderer/Bidder	Details	Yes	No	Remarks
1.	Name of the Tenderer/Bidder				
2.	Complete Address				
3.	State clearly whether it is sole Proprietor or Partnership firm or a company or a government Department or a Public Sector Organization. (If not proprietorship, for which Certificate of Internship /Memorandum of Arbitration)				
4.	Details of the Earnest Money Deposit (EMD) (Yes/No) DD No. - Dated - Drawn on Bank - Amount - <b>Rs. 4,844/-</b>				
5.	Details of Tender Processing Fee (The cost of Tender documents) (Yes/No) DD No. - Dated - Drawn on Bank - Amount - <b>Rs. 500/-</b> (Rupees <b>FIVE HUNDRED</b> only)				
6.	Whether each page of NIT and its annexure have been Signed and Stamped.				
7.	Whether Bidders have quoted for each and every item mentioned in financial Bid (Yes/No) (If No, then please attach a list of quoted items with the technical Bid without indicating price)				
8.	Copy of GST Registration No.				
9.	Permanent Account No. and latest acknowledgement of IT Return				
10.	e-Mail ID if any				
11.	Contact No.				
12.	Contractor's License No(MV or Above)				
13.	Validity of (MV or Above) License				
14.	Affidavit (as per Page 16)				

Business Address: -

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name:

(Signature of Bidder with Firm's Seal)

Place: \_\_\_\_\_

Dated: \_\_\_\_\_

DECLARATIONS TO BE GIVEN BY THE TENDERERS

It is to certify that:-

(a) I/We have gone through CPWD W-8 amended up-to correction Slips as available on website or in the office of Executive Engineer and I/We agree with the terms and conditions of it and understood that it will form part of the agreement.

Date : \_\_\_\_\_ (Signature of the Tenderer)

(h) I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Agreement in letter and spirit and further agree that execution of the said Agreement shall be separate and distinct from the main contract, which will come into existence when Tender/Bid is finally accepted by AIIMS, Raipur. I/We acknowledge and accept the duration of the Agreement, which shall be in the line with Article-1 of the enclosed Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Agreement, while submitting the tender/bid, AIIMS, Raipur shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Date : \_\_\_\_\_ (Signature of the Tenderer)

(d) "I, S/o Sri ..... resident of ..... Hereby certify that none of my relative(s) is/are employed in AIIMS, Raipur (Chhattisgarh). In case at any stage, it is found that the information given by me is false/ incorrect, AIIMS, Raipur shall have the absolute right to take any action as deemed fit without any prior intimation to me".

*NOTE: - (To be certified by all the partners in case of partnership firms, by all the directors in case of companies).*

Date : \_\_\_\_\_ (Signature of the Tenderer)

**Other Partners (if any):-**

3. Sri \_\_\_\_\_ S/o Sri \_\_\_\_\_ Signature: \_\_\_\_\_
4. Sri \_\_\_\_\_ S/o Sri \_\_\_\_\_ Signature: \_\_\_\_\_
5. Sri \_\_\_\_\_ S/o Sri \_\_\_\_\_ Signature: \_\_\_\_\_
6. Sri \_\_\_\_\_ S/o Sri \_\_\_\_\_ Signature: \_\_\_\_\_

**(To be signed by the Bidder and same signatory competent/authorized to sign the relevant contract on behalf of AIIMS, Raipur).**

**(Specimen) AGREEMENT**

This Agreement is made at .....on this..... Day of.....2018.

**BETWEEN**

Director, AIIMS, Raipur represented through Executive Engineer, AIIMS, RAIPUR...  
(Hereinafter referred as the) (Address) "**Principal/Owner**", which expression shall unless repugnant to the meaning or context hereof include its success or sand permitted as signs)

**AND**

..... (Name and Address of the Individual/firm/Company) through..... (Hereinafter referred to as the (Details of duly authorized signatory)

"**Bidder/Contractor**" and which expression shall unless repugnant to the meaning or context hereof include its success or sand permitted as signs)

**Preamble**

WHEREAS, the Principal/Owner has floated the Tender (NIT No. ....)

(here in after refer red to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for "**Supply, Installation, Testing and Commissioning of 04 Nos.,2 Ton Inverter Type Split AC , 5 Star , R-410a Refrigerant at VRDL (Microbiology Dept) Medical College, AIIMS Raipur.**"

**AND** WHEREAS the Principal/Owner values full compliance with all relevant laws of the Land, Rules & Regulations, Economic use of resources and of fairness/ transparency in its relation with its Bidder(s) and Contractor(s).

**AND** WHEREAS to meet the purpose afore said both the parties have agreed to enter to this Agreement (hereinafter referred to as "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, inconsideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:-

**Article - 1: Commitment of the Principal/Owner.**

4. The Principal/Owner commit itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender processor the Contract execution.

(c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

7. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC)/Prevention of Corruption Act, 1988 (P C Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

**Article - 2: Commitment of the Bidder(s)/Contractor(s)**

9. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standard and makes, and report to the Government/Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

10. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:-

(a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind what so ever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

(d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly

could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

(e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to, or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.



11. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

12. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**

13. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may be fall upon a person, his/her reputation or property to influence their participation in the tendering process).

#### **Article - 3: Consequences of Breach.**

*Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:-*

2. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article-2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may before vigour for a limited period as decided by the Principal/Owner.**

3. **Forfeiture of EMD/Performance Guarantee/Security Deposit :** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contractor has accrued the right to terminate/determine the Contract according to Article-3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

4. **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive

Suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

#### **Article - 4: Previous Transgression.**

1. The Bidder declares that no previous transgressions occurred in the last 05 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender processor action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.

3. If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/ Owner may, at its own discretion, revoke the exclusion prematurely.

**Article - 5: Equal Treatment of all Bidders/Contractors/Sub-contractors.**

1. The Bidder(s)/Contractor(s)/undertake(s) to demand from all sub-contractors a commitment in conformity with this Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.

2. The Principal/Owner will enter in to Pacts on identical terms as this one with all Bidders and Contractors.

3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

**Article - 6: Duration of the Pact.**

1. This Pact begins when both the parties have legally sign edit. It expires for the Contractor/Vendor 12 months after the completion of work under the contractor till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

2. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, AIIMS, Raipur.

**Article - 7: Other Provisions.**

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the **Raipur** of the Principal/Owner, who has floated the Tender.

2. Changes and supplements need to be made in writing. Side agreements have not be unmade.

3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

4. Should one or several provisions of this Pact turnout to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Agreement/Pact, any action taken by the Owner/Principal in accordance with this **Agreement/Pact or interpretation thereof shall not be subject to arbitration.**

**Article - 8: LEGAL AND PRIOR RIGHTS.**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Pact.

IN WITNESS WHEREOF the parties have signed and executed this Pact at the place and date first above mentioned in the presence of following witnesses:

.....  
(For and on behalf of Principal/Owner)

.....  
(For and on behalf of Bidder/Contractor)

WITNESSES:

1. ....  
(Signature, Name and address)

2. ....  
(Signature, Name and address)

Place :

Dated :

**PROFORMA OF SCHEDULES****SCHEDULE 'A'***(Reference to General conditions of Contract.)*

Name: "Supply, Installation, Testing and Commissioning of 04 Nos., 2 Ton Inverter Type Split AC , 5 Star , R-410a Refrigerant at VRDL (Microbiology Dept) Medical College, AIIMS Raipur."

Estimated Cost of Work : Rs. 2,42,181/-

(a)	Earnest Money	=	<u>Rs. 4,844/-</u>
(b)	Performance Guarantee	=	<u>5% of Tendered Value</u>
(c)	Security Deposit	=	<u>2.5% of Tendered Value</u>

**SCHEDULE 'B'**

GENERAL RULES &amp; DIRECTIONS:

Officer Inviting Tender: - Executive Engineer, AIIMS, Raipur

Definitions		See below
2 (v)	Engineer-in-Charge	Executive Engineer,
		AIIMS, Raipur
2(viii)	Accepting Authority	Executive Engineer,
		AIIMS, Raipur
2(x)	Percentage on cost of materials and	15%
	labour to cover all over heads and profit	
2(xi)	Standard Schedule of Rates	As per CPWD Plinth Area Rates for
		Specialised E&M works 2014
9(ii)	Standard AIIMS Contract Form	GCC for CPWD Works - 2014 as
		amended and up to and including
		correction slip

**Clause – 1.**

- |      |   |   |         |
|------|---|---|---------|
| (i)  | Time allowed for submission of Performance guarantee, Program Chart (Time & Progress) and applicable Labour Licenses, Registration with EPFO, ESIC & BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance | : | 07 Days |
| (ii) | Maximum allowable Extension with late fee @ 0.1% of Performance guarantee amount beyond the period provided in (i) above.   | : | 07 Days |

<b><u>Clause – 2.</u></b>	
Authority for fixing compensation under Clause 2	: Executive Engineer/ Director, AIIMS, Raipur
<b><u>Clause – 2A.</u></b>	
Whether Clause 2A shall be applicable	: No
<b><u>Clause – 5.</u></b>	
No. of days from the date of issue of letter of acceptance for reckoning date of start	: 10 days
Authority to decide fair & reasonable extension of time for completion of work	Executive Engineer/ Director, AIIMS, Raipur
<b><u>Clause – 6 &amp; 6A.</u></b>	
Whether Clause 6 shall be applicable	: Yes
Whether Clause 6A shall be applicable	: No
<b><u>Clause 7</u></b>	
Gross work to be done together with net payment/adjustment of advances for material collected, if any since the last such payment for being eligible to interim payment	: N.A.
<b><u>Clause – 7A.</u></b>	
Whether clause 7A shall be applicable	: N.A.
<b><u>Clause – 10B (ii).</u></b>	
Whether Clause 10B (ii) shall be applicable	: No.
<b><u>Clause – 10C.</u></b>	
	: Not applicable.
<b><u>Clause – 10CA.</u></b>	
	: Not applicable.
<b><u>Clause – 16.</u></b>	
Competent Authority for deciding reduced rates	: Executive Engineer/ Director, AIIMS, Raipur
<b><u>Clause – 25.</u></b>	
Settlement of dispute & Arbitration	: Director, AIIMS, Raipur

Not Applicable

Clause 36(i)

**"Requirement of Technical Representative(s) and Recovery Rate for Electrical works**

SNo	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figures	Words

~~"Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers."~~

Clause 42 - Applicable

**RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**

Sl No.	Description of item	Rates in figures and words at which Recovery shall be made from the Contractor	
		Excess beyond Permissible variation	Less use beyond the permissible variation
1.	Cement	N.A.	
2.	Steel Reinforcement	N.A.	

**APPENDIX 'B'****Format of PERFORMANCE SECURITY/BANK GUARANTEE**

1. In consideration of the Director, AIIMS, Raipur (hereinafter called " the Government ") having offered to accept the terms and conditions of the proposed agreement between \_\_\_\_\_ And \_\_\_\_\_ (hereinafter called the said Contractor(s)) for the work \_\_\_\_\_ (hereinafter called " said agreement)" having agreed to production of a irrevocable Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as a security/guarantee from the contractor(s) for compliance of his obligation in accordance with the terms and conditions in the said agreement.
- I/We \_\_\_\_\_ (hereinafter referred to as Bank) hereby (Indicate the name of the Bank) undertake to pay to the Government an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) on demand by Government.
2. I/We \_\_\_\_\_ do hereby undertake to pay the (Indicate the name of the Bank) amount due and payable under this Guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor (s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).
3. I/We the said bank undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor (s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
4. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor (s) shall have no claim against us for making such payment.
5. I/ We \_\_\_\_\_ further agree that the guarantee herein contained (Indicate the name of Bank) shall remain in full force and effect during the period that would be taken for the performance of the said agreement and it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid, and its claims satisfied or discharged, or till Engineer-in- charge on behalf of the Government, certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor (s) accordingly discharges this guarantee.
6. I/We \_\_\_\_\_ further agree with the Government that the (Indicate the name of Bank) Government shall have the fullest liberty without our consent, and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor (s) and to forebear or enforce any of the terms and conditions relating to the said agreement & we shall not be relieved from our liability by reasons of any such variation or extension being granted to the said contractor (s) or for any forbearance, act of omission on that part of the Government or any indulgence by the Government to the said contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
7. The guarantee will not be discharged due to the change in the constitution of the Bank or the contractor.
8. We \_\_\_\_\_ lastly undertake not to revoke this (Indicate the name of Bank) Guarantee except with the previous consent of the Government in writing.
9. This Guarantee shall valid up to \_\_\_\_\_ unless extended on demand by Government, Notwithstanding anything mentioned above, our liability against this Guarantee is Restricted \_\_\_\_\_ to \_\_\_\_\_ Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee all our liabilities under the Guarantee shall stand discharged.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ for \_\_\_\_\_

**SCHEDULE OF QUANTITY**

**Name of Work: Supply, Installation, Testing and commissioning of 04Nos. 2 Ton Inverter Type Split AC, 5 Star, R-410a Refrigerant at VDRL (Microbiology Dept.) Medical College, AIIMS Raipur.**

Sl. No.	Description	Qty	Unit	Rate	Amount
1	Split AC Inverter Type	4	Each	48,500/-	1,94,000/-
2	Extra Copper pipe with insulation & cable	119	Feet	295/-	35,105/-
3	Outdoor Stand	4	Each	885/-	3,540/-
4	Drain Pipe	60	Meter	29.5/-	1,770/-
5	Split AC Insulation Charges	4	Each	1400/-	5,600/-
6	Man Power (2 Skilled & 2 Unskilled) for drilling, Cutting Chases, Packing	2 Days Skilled Man = 617 Rs./Day & unskilled=466 Rs/ Day			2,166/-
<b>Total Amount (Rs.) (inclusive of all taxes)</b>					<b>2,42,181/-</b>

Percentage quoted in figure and words \_\_\_\_\_

Signature and address of Contractor