

# ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

## OFFICE OF THE SUPERINTENDING ENGINEER PROJECT CELL AIIMS, RAIPUR

## **NOTICE INVITING e-TENDER**

## N.I.T. NO. 12/EE/AIIMS/RPR/2024-25 (4th call)

NAME OF WORK	:	Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur.
ESTIMATED COST	:	₹ 1,51,51,920.00
EARNEST MONEY	:	₹ 3,10,000.00
CONTRACT PERIOD	:	04 months
Type of work	:	Construction

e-sign by Susanta Kumar Bose Superintending Engineer AIIMS, Raipur

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Name of Work: "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur."

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#### **INSTRUCTIONS FOR ONLINE BID SUBMISSION**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: https://eprocure.gov.in/eprocure/app.

#### **REGISTRATION:**

- 1) Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "Online bidder Enrolment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify/nCode /eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

#### SEARCHING FOR TENDER DOCUMENTS:

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the Number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### SUBMISSION OF BIDS:

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- 7) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 8) The documents being submitted by the bidders would be encrypted using PKI encryption all techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key.
- 9) Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 10) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 11) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 12) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

#### **ASSISTANCE TO BIDDERS:**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk number 0120-4200462, 0120-4001002.
- 3) For any further assistance, please contact to the office of Superintending Engineer, AIIMS Raipur.

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

## NOTICE INVITING e-TENDER

(a)	Name of Work	Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur.
(b)	Tender No.	12/EE/AIIMS/RPR/2024-25 (4 <sup>th</sup> call)
(c)	Contract Period	04 months
(d)	Estimated Cost	₹ 1,51,51,920.00
(e)	Earnest Money Deposit (Mandatory to submit original EMD for participating in Bid and no need to submit hard copy of whole tender document)	<b>₹ 3,10,000.00</b> (to be submitted in the form of an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India <b>in favour of AIIMS, Raipur</b> in the office of Project cell, AIIMS, Raipur before the last date of opening of technical Bid.
(f)	Performance Guarantee	5 % of Tendered value.
(g)	Security Deposit	2.5% of the Tendered Value.
(h)	Tender documents may be seen on	AIIMS web site <u>www.aiimsraipur.edu.in</u> and CPPP site <u>https://eprocure.gov.in/eprocure/app</u>
(j)	Last Date &Time of Submission	By 29-11-2024 UP TO 15:00 Hours through online.
(k)	Date & Time for opening of Technical Bid	On 30-11-2024 at 15:30 Hours.

- 1. The intending Bidder must read the Terms &conditions carefully. He/ She should only submit bid if consider himself/herself eligible and bidder in possession of all the documents required.
- 2. Information and Instructions for bidders posted on website shall from part of bid document.
- 3. The Bid documents consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms &conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <a href="https://www.aiimsraipur.edu.in">www.aiimsraipur.edu.in</a> Or <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>.

### Superintending Engineer AIIMS, Raipur

## **INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING**

The Superintending Engineer, AIIMS, Raipur on behalf of Executive Director, AIIMS, Raipur invites online **Percentage Rate/ Item Rate bids in Two bid system (Technical cum Eligibility & Financial)** from eligible and registered contractors of appropriate list of CPWD (Building and Roads)/ M.E.S. / BSNL (Construction)/ Railway/ C.G.P.W.D/ Specialized agency for the following work(s):-

S1. No.	Description	Details
(a)	NIT No.	12/EE/AIIMS/RPR/2024-25 (4 <sup>th</sup> call)
(b)	Name of Work:	Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur.
(c)	Estimated Cost	₹ 1,51,51,920.00
(d)	Earnest Money Deposit (Mandatory to submit original EMD for participating in Bid and no need to submit hard copy of whole tender document)	₹ 3,10,000.00(to be submitted in the form of an account payee demand draft/ fixed deposit receipt from a commercial bank/ bank guarantee issued/confirmed from any of the commercial bank in India in favour of AIIMS, Raipur in the office of Project cell, AIIMS, Raipur before the last date of opening of technical Bid.)
(e)	Period of Completion	04 months
(f)	Last Date & Time of Submission	By 29-11-2024 UP TO 15:00 Hours through online.
(g)	Date & Time for opening of Technical Bid	On 30-11-2024 at 15:30 Hours.

- **1.** The intending bidder must read the terms and conditions of Tender document carefully. Bidder may submit bid having all required documents.
- **2.** Intending bidders shall have to register at CPPP portal to participate in the tendering process. For details kindly visit website <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a> or In case the bidder requires any elucidation regarding the tender documents, may contact to the office of Project Cell, AIIMS Raipur before the opening of tender date.
- **3.** For e-tendering of this tender, downloaded from AIIMS Raipur website and Central Public Procurement Portal (CPPP) e-Procurement website.
- 4. The intending bidders must have valid class-III digital signature to submit the bid. <u>Manual bid</u> <u>shall not be accepted in any circumstance</u>. The complete bidding process is online bidding; Bidder should have valid digital Signature Certificate (DSC) for online submission of bids.
- **5.** The bid document consisting of the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and

other necessary documents can be seen and downloaded from website <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a> free of cost.

- **6.** The bid can be submitted only after uploading the mandatory scanned documents up to 100 dpi Copies of eligibility documents and EMD as specified on the e-tendering website within the period of tender submission. Bidders can upload documents in the form of JPG format, PDF format and any other format as permissible by the e-tendering portal.
- **7.** Bidders must ensure to quote rate of each item. If any cell is left blank the same shall be treated as "0". Therefore, If any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). After submission of the bid online the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- **8.** After submission of bid online, it can be revised any number of times before specified time on last date of submission of bid. While submitting the revised bid, bidder can revise the rate of one or more item(s) any number of times (need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
- **9.** Financial bids shall be opened online only for bidders for whom EMD and other uploaded documents are found in order and who are found to be eligible to bid for work. On opening date, the bidder can log in and see the bid opening process. After opening of bid he/she will receive the competitor bid sheets.
- **10.** If the bidder is found ineligible after opening of technical cum eligibility, bid shall become invalid.
- 11. The Bidders shall have to submit original instrument for EMD before the last date of opening of TECHNICAL cum Eligibility Bid to the office of Tender Opening Authority. Bid security will be refunded to the successful bidder on receipt of a performance security. Bid securities of the unsuccessful bidders should be returned at the earliest after L1 decided by Committee of AIIMS Raipur.
- **12.** The Technical cum Eligibility bid shall be opened first on due date and time as mentioned above. Opening of financial bids of contractors qualifying the eligibility shall be opened at a later date.
- **13.** The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criteria.
- 14. Performance Guarantee: The successful contractor will be required to furnish a Performance guarantee of 5% (Five Percent) of Tendered Value after receiving notification of award in the form of an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India in the name of the "All India Institute of Medical Sciences, Raipur" which shall be kept valid for a period of 6 months beyond completion of all the contractual obligations. The Performance Guarantee can be forfeited in the event of any breach or 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 released after successful completion of work 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 earnest money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.

#### **15. Sources and Verification of Bank Guarantees**

Bank Guarantee for Bid Security (EMD), Performance Guarantee, Security Deposit should be irrevocable and operative Bank Guarantee (BG) as per format enclosed in the Bid Document and should be issued by a Scheduled Commercial (i.e. Indian or Foreign Banks included in the

Second Schedule of Reserve Bank of India Act, 1934 excluding Co-operative banks or Regional Rural Banks). *In case of foreign bidders or in case of GTE, if Bank Guarantee is from a foreign bank branch situated outside India, the Bank Guarantee must be issued through any of the Scheduled Commercial Bank. In case BG is issued directly by a bank outside India, it should be executed on letter Head of the Bank and should be advised and made payable through their Indian Branch/Corresponding Bank in India.* The Issuing Bank should also state the name and designation of the next Higher Authority of the Officials who have issued the Bank Guarantee. Bank guarantees submitted by the tenderers/ contractors as EMD/ performance securities need to get the Bank Guarantee vetted from legal/ finance authority if it is in the specified format. Guidelines for verification of BGs submitted by the bidders/ contractors against EMD/ performance security/ advance payments and for various other purposes are as follows:

- i) BG shall be as per the prescribed formats;
- ii) The BG contains the name, designation and code number of the Bank officer(s) signing the guarantee(s);
- iii) The address and other details (including telephone no.) of the controlling officer of the bank are obtained from the branch of the bank issuing the BG (this should be included in all BGs). The confirmation from the issuing branch of the bank is obtained in writing though registered post/ speed post/ courier. The bank should be advised to confirm the issuance of the BGs specifically quoting the letter of Procurement Entity on the printed official letterhead of the bank indicating address and other details (including telephone nos.) of the bank and the name, designation and code number of the officer(s) confirming the issuance of the BG; Pending receipt of confirmation as above, confirmation can also be obtained with the help of responsible officer at the field office, which is close to the issuing branch of the bank, who should personally obtain the confirmation from issuing branch of the bank and forward the confirmation report to the concerned procurement entity.
- **16.** Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids, the means of access 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 bidder 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 bidder 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.
- **17.** The Tender paper/documents can be seen / downloaded from Official website & submitted through Online or Site.
- **18.** The competent authority on behalf of the Executive Director, AIIMS, Raipur does not bind itself to 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 bidder shall be summarily rejected.
- **19.** 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 to rejection.

- **20.** The Competent Authority, the **Engineer-In-Charge**, reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
- 21. The contractor shall not be permitted to bid for works in the AIIMS, Raipur responsible for award and execution of contracts, in which his near relative is posted as an officer in any capacity between the grades of Superintending Engineerand Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the AIIMS, Raipur. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
- **22.** The bid for the works shall remain open for acceptance for a period of **90 days** from the date of opening of bids.
- **23.** This notice inviting bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of "The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, GCC, if any, forming part of the bid as uploaded at the time of invitation of bid and rate quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- 24. Purchase preference shall be given to Class-I local supplier(s) based on their declaration of the percentage (%) of minimum local content used in the manufacturing of quoted product as per Public Procurement (Preference to make in India), Order 2017 notification issued by GoI, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion (DIPP) vide order no. P-45021/2/2017-PP (BE-II) dated 15/06/2017 and order no. 31026/65/2020-MD dated 30/12/2020 issued by Ministry of Chemicals & Fertilizers, Department of Pharmaceuticals

"Local Content" means the amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

**25.** It is expected that, all the participating BIDDER companies have understanding and prior knowledge about the "Make in India" Initiative and Price Preference Policy of Govt. of India. However, it is once again emphasized that before participating this e-tender please carefully read the "Make in India" Initiative and directives of Govt. of India, since in case if any "Make in India" Registered Company will participate against this e-tender, the Price preference as per the same will be given to such participating Bidder company for ensuring necessary compliances of "Make in India" Policy of the Govt. of India.

## 26. Eligibility of Bidder

### (a) Minimum Eligibility Criteria :

(i) <u>The Applicant should be registered contractors of appropriate list of CPWD (Building and Roads/ M.E.S. / BSNL (Construction)/ Railway/ C.G.P.W.D. / Specialized agency.</u>

- (ii) Average annual financial turnover on construction works should be at least 30% of the estimated cost put to tender during the immediate last three consecutive financial years. The value of annual turnover figures shall be brought to current value by enhancing the actual turnover figures at simple rate of 7% per annum
- (iii) Experience of having successfully completed similar work in Govt./ Semi Govt./ PSU/ Autonomous Bodies of Govt. during last 7 years ending on previous day of last day of submission of tender. 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 the last date of submission of bid.

Three similar\* works each of value not less than 40% of the estimated cost put to tender OR

Two similar\* works each of value not less than 60% of the estimated cost put to Tender OR

One similar\* work of value not less than 80% of the estimated cost put to tender

\* "Similar Works" means **Air conditioning work**.

### (b) Bid Capacity and Technical Eligibility Criteria:

(i) The bidder who comply with the above Minimum Eligibility Criteria will be eligible further for consideration of bid(s) only if their available bid capacity is more than the Estimated Cost Put To Tender for the work mentioned in this Notice Inviting Tender.

The available bid capacity shall be calculated as under:

Assessed available Bid Capacity = (A\*N\*1.5-B)

- Where
  - <u>'N' = Number of years prescribed for completion of work for which bid has been</u> <u>invited.</u>
    - 'A' = Maximum turnover in construction works executed in any one year during the last seven years taking into account the completed as well as works in progress.

    - enhancing at a simple rate of 7% per annum
- 'B'= Value of existing commitment and ongoing works to be completed
- The values for
- A= Computed for the Bidder from Performa-III
  - N= No. of years for "Period of Completion" for work for which NIT is invited.
- B= Computed for the Bidder from **Performa-VI**

Bidder shall submit details of ongoing works as per Performa-III and Performa-VI

### (c) Contractual Performance in Other Departments

Letter of past contractual performance to be submitted by bidder as per Performa -VII

### Signing of bid document:

- a. If the bidder is an individual, the bid shall be signed by him above his full type written name and current address.
- b. If the bidder is a proprietary firm, the bid shall be signed by the proprietor above his full type written name and the full name of his firm with its current address.
- c. If the bidder is a firm in partnership, the bid shall be signed by all the partners of the firm above their full type written names and current addresses, or, alternatively, by a partner holding power of attorney for the firm. In the later case a certified copy of the

power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.

- d. If the bidder is a limited company or a corporation, the bid shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.
- 27. In the bid documents the word / sentence shall be read as under :
  - a. President of India Executive Director, AIIMS, Raipur
  - b. The terms Director General includes CPM/ADG region/ SDG PR Special Director General / Additional Director General and CPM/ Chief Engineer of the Zone -Director/Superintending Engineer/Executive Engineer, AIIMS, Raipur.
  - c. CPWD AIIMS Raipur.
- 28. Any dispute or difference arising out of this contract or in connection therewith which cannot be amicably settled between the parties shall be finally settled under the rules of council of Arbitration of India by one or more arbitrator appointed in accordance with the said rules. The arbitration shall take place at Raipur (Chhattisgarh) and the resulting award shall be final and binding upon the parties and shall be in lieu of any other remedy.

## List of Mandatory Documents to be filled in by the bidders in various forms to be scanned and uploaded within the period of bid submission

1	Enlistment Order for the Contractor (Wherever applicable)
2	Scanned Copy of EMD (Original to be submitted as mentioned in Information
4	and Instructions for Bidders for e-Tendering)
3	Letter of transmittal (Annexure-A)
4	Vendor Details as per (Annexure-B)
5	Structure & Organization (Annexure-C)
6	Declaration by Bidder (Annexure-D)
7	Consent Letter (Annexure-E)
8	Self-Certification under Preference to "MAKE IN INDIA" Policy (Annexure -F)
9	GST Registration Certificate of Chhattisgarh State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration of Chhattisgarh State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents. "If work is awarded to me, I/we shall obtain GST registration Certificate of Chhattisgarh State, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by AIIMS RAIPUR, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by AIIMS RAIPUR or GST department in this regard.
10	Proof of Average Annual Financial Turnover on construction works should be at least 30% of the estimated cost put to tender during the immediate last three consecutive
11	financial years (Proforma III) Details of The Similar Works Completed In Last Seven Years (Performa-IV)
12	Details of ongoing/existing works (Proforma VI)
	Affidavit on non-judicial paper of Rs. 50/- duly attested by Notary/ Magistrate for PAST
13	CONTRACTUAL PERFORMANCE (Proforma-VII)
14	Copy of Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate contractor having valid electrical license of appropriate class.

e-sign by Susanta Kumar Bose Superintending Engineer AIIMS, Raipur

## (Annexure-A)

## LETTER OF TRANSMITTAL

From:

То

The Superintending Engineer, Project Cell, AIIMS, Raipur (C.G.)

Subject: Submission of bids for the work of "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur."

Sir,

Having examined the details given in the bid document for the above work, I/we hereby submit the relevant information.

- 1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to F and accompanying statement are true and correct.
- 2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
- 3. I/we authorize Engineer-In-Charge or his representative to approach individuals, employers, firms and corporation to verify our competence and general reputation.

Certificate: It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I / We shall be liable to be debarred, disqualified / cancellation of enlistment in case any information furnished by me / us is found to be incorrect.

Enclosures:

Date of submission:

Signature(s) of Bidder(s) Seal of bidder

## FORM FOR DETAILED INFORMATION BY BIDDER (Vendor Details)

1.	Name of the Bidder	
2.	Permanent Account No (PAN)	
3.	Particulars of Bank Account	
	a) Name of the Bank	
	b) Account Number	
	c) Name of the Branch	
	d) Branch Code	
	e) Address	
	f) City Name	
	g) Telephone No	
4.	Legal status of the bidder (attach copies of original document defining the legal status)	
	a) An Individual	
	b)A proprietary firm	
	c)A firm in partnership	
	d) A limited company or Corporation	
5.	GST Registration Certificate No	
6.	Valid Email ID of the Bidder	
7.	Complete Postal Address of the bidder	

## (Authorized Signature of the Bidder with Seal)

## Annexure-C

## **STRUCTURE & ORGANISATION**

- 1. (a) Name
  - (b) Address of the bidder
- 2. (a)Telephone no.
  - (b) Telex no.
  - (c) Fax no.
  - (d) E-mail
- Legal status of the bidder (attach copies of original document defining the legal status)
   (a) An Individual
  - (b) A proprietary firm
  - (c) A firm in partnership
  - (d) A limited company or Corporation
- 4. Particulars of registration with various Government Bodies if any (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.

Signature of Bidder(s) with Seal

## **DECLARATION**

It is to certify that:

- 1) I/We agree with the terms and conditions of it and understood that it will form part of the agreement.
- 2) I hereby certify that none of my Relative(s) are employed in AIIMS Raipur, Chhattisgarh. In case at any stage, it is found that the information given by me is false/incorrect, AIIMS shall have the absolute right to take any action as deemed fit without any prior intimation to me".
- 3) I/We undertake and confirm that eligible Work(s) has/have not been got executed through another contractor on back to back basis. Further, it is stated that, if such a violation comes to the notice of Department, than I/We shall be debarred for bidding in AIIMS in future forever. Also, if such a violation comes to the notice of AIIMS, Raipur before date of start of work, the Engineer-In-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.
- 4) I / We have signed (with stamp) uploaded documents of the tender before submitting the same.
- 5) All the information and documents given/ uploaded for bids are true.
- 6) I / We have provided our e-Mail id for any communication in this regard.
- 7) I have read carefully & understood the important instructions to the all bidders.

Date.....

Contractor

E-Mail:

(Sign with Seal)

## **CONSENT LETTER**

## "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur."

I/We hereby give my/ our consent to work as contractor till the completion of work and I/we will be responsible for execution of work only by skilled persons in the field of **related work** as per satisfaction of Engineer-In-Charge.

I/We have experience to technically execute, take measurements and will produce computerized measurement sheets of work before covering hidden work / job and other exposed works in time as per clause 6 otherwise measurement will be recorded by the representative of Engineer-In-Charge which will be bound to me. Final measurement with bill will be produced by me/us within one month after completion date otherwise representative of Engineer-In-Charge will prepare the same which will be acceptable and bound to me/us and no any claim in this regard will be made by me/us.

I/We will provide all invoices and related test certificates of materials as required by E-In-C. All Analysis of rates for Extra, Deviation items etc. will be produced by me/us in consultation with representative of Engineer-In- Charge on time for getting approval from Competent Authority of AIIMS before execution of work or otherwise the same will be prepared by the department and will be bound to me/us.

I/we will also engage suitable and skill Engineer(s) for the work as per Clause 32 of General Condition of Contract.

I further certify that the above particulars pertaining to me are correct.

I/We will produce all uploaded documents in original for physical verification before issue of Letter of Acceptance or / and as demanded by Engineer-In Charge before the payment.

I/We will submit "No Claim Certificate" in the approved format in company letter head after receiving final bill payment.

Signature of contractor with seal

## **ANNEXURE-F**

## Self-Certification under Preference to "MAKE IN INDIA" Policy

#### CERTIFICATE

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15/06/2017, its revision dated 04/06/2020 and any subsequent modifications/Amendments from time to time and as applicable on the date of submission of tender, we hereby certify that we \_\_\_\_\_\_

(Name of Contractor/Firm/ Agency) are local Contractors and will meet the requirement of minimum Local content (50%) as defined in above orders for the material against Tender No \_\_\_\_\_\_, if selected as Lowest Bidder

Details of location at which local value addition will be made is as follows:

The information furnished hereinafter is correct to the best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any other Government authority for the purpose of assessing the local content of goods/services/works supplied by me.

In the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed supplier class categorization criteria as per said order, based on the assessment of procuring agency(ies)/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Seal and Signature of Authorized Signatory

#### **PROFORMA-III**

Date: \_\_\_\_\_

#### ANNUAL TURNOVER FOR THE LAST THREE YEARS

S. No.	FINANCIAL YEAR	Annual Turnover from Construction Works (Rs. in Lacs)	Remarks
1	2020-21		
2	2021-22		
3	2022-23		

#### Note:

1 The bidder shall submit the Certificate from the Chartered Accountant, wherever the Annual Turnover is certified for the relevant financial year in which the minimum criteria of Annual Turnover is satisfied should also be submitted.

#### DETAILS OF THE SIMILAR WORKS COMPLETED IN LAST SEVEN YEARS

SI. No.	Description of the work with Contract No./ Work Order No.	Department in which work carried out	Date of award	Stipulated date of completion	Date of actual completion	Value of completed work (Rs. in Lacs)	Reasons for delays, Penalty if any	Any other relevant information

Note:

1. The Bidder shall submit the attested Copies of the Completion Certificates from the Client i.e. Department(s) of Govt./Semi Govt./PSU/Autonomous Bodies of Govt..

#### **DETAILS OF ON-GOING/EXISTING WORKS**

<del>SI.</del> No.	Description of The Work With Contract No./ Work Order No.	Department in which work is awarded	<del>Date of</del> <del>award</del>	Stipulated date of completion	Value Of work as per order (Rs. in lacs)	Value of Work completed so far (Rs. In lacs)	Anticipated date of Completion of work	Any other Relevant information

Note:

1. The copies of Work Orders of ongoing-awarded works and documentary proof for payment issued by the Client i.e. Department(s) of Govt./Semi Govt./PSU/Autonomous Bodies of Govt. shall be attached.

#### PAST CONTRACTUAL PERFORMANCE

(Affidavit on non-judicial stamp paper of Rs.50/- duly attested by Notary/Magistrate)

This is to certify that We, M/s \_\_\_\_\_[Name of the Bidder with address], in submission of the Bid "(Name of the Work and NIT No."):

i) have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements;

ii) do not have records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.;

iii) have never been banned by any Central/State Govt. Departments/Public Sector Undertakings or Enterprises or Autonomous Bodies of Central/State Govt.;

iv) have submitted all the supporting documents and furnished the relevant details as per the prescribed format.; and

v) have submitted all the information and the requisite documents with the Bid and further certify that we are fully responsible for the correctness of the information and documents submitted by us.

#### SEAL AND SIGNATURE OF THE BIDDER

Note: Exceptions of the above, if any, shall be clearly mentioned with details by the bidder for evaluation/consideration if any.

## FORM-A

### **CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF SPECIALIZED WORK(S)**

Name of work: "\_\_\_\_\_."

- 1. I / We hereby give my consent to associate with M/s ...... for executing the of work of ....... (Mention specialized work(s)).
- 2. I / We will execute the work as per specifications and conditions of the agreement and as per directions of the Engineer in Charge for the corresponding specialized work(s) till the completion of the work.
- 3. I / We will be responsible for necessary action to handover the installations and for rectification of defects and repair during the maintenance / warranty period.
- 4. Also I / We will employ full time technically qualified Engineer / supervisor for the specialized work(s) component of the work as required for the work. I / We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Main Agency /Contractor

Address:

Signature with date of Associate Specialized Agency Address:

1. Witness with address

— (From main contractor side)

-2. Witness with address

- (From associated agency side)

#### **MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN**

- 1] M/S [Name of the firm/agency with full address]
- <u>– Enlistment Status</u>
- -Valid Upto:
- [Henceforth called the main contractor]
- -And
- 2] M/S [Name of the firm/agency with full address]
- -Enlistment Status
- -Valid Upto:

For the execution of Specialized Works : "\_\_\_\_\_"

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [AIIMS] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits.

In case of any dispute, either of us will go for mediation by the EE, AIIMS, Raipur, Any of us may appeal against the mediation to the Executive Director, AIIMS, Raipur. His decision shall be final and binding on both of us. We have agreed as under:

1] The associated specialized agency will execute all specialized work(s) in the wholesome manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-charge.

2] That the Associated specialized agency has gone through the contract and has understood the scope of work required for the purpose of executing the specialized work(s).

-3] All the machinery and equipments, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the associated specialized agency.

4] The site staff required for the specialized work(s) shall be arranged by the associated specialized agency as per terms and conditions of the agreement.

5] Site order book maintained for the said work shall be signed by the authorized representative of main contractor as well as Associated specialized Agency.

6] All the correspondence regarding execution of the specialized work(s) shall be done by the Department with the associated specialized agency with a copy to the main contractor.

In case of non compliance of the provisions of agreement, the main contractor, as well as the associated agency shall be responsible.

The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR SIGNATURE OF ASSOCIATED SPECIALIZED AGENCY.

Date:

**Place** 

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of AIIMS Raipur.

## **INTEGRITY AGREEMENT**

#### BETWEEN

Executive Director, AIIMS Raipur through Superintending Engineer(C), AIIMS Raipur.

(Name of Division)

AIIMS, ....., (Hereinafter referred as the

(Address of Division)

'**Principal / Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

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 successors and permitted assigns)

### Preamble

WHEREAS the Principal /Owner has floated the e-Tender (NIT No. 12/EE/AIIMS/RPR/2024-25 (3rd call) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur". Here in after referred to as the "Contract".

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 aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**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, in consideration 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**

- 1. The Principal/Owner commits 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 process or the Contract execution.
  - (c) The Principal / Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2. 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 (PC 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)

- 1. It is required that each Bidder /Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, 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.
- 2. 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 whatsoever 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.
- The Bidder(s)/ Contractor(s) of foreign origin shall disclose the names and d) 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 participates 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 а subsequent/parallel tender for the same item.
- e) The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose (with each tender as per Performa enclosed) 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
- 3. The Bidder(s) / Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4. The Bidder(s) / Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful 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.
- 5. 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 befall 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 be forever or 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 Contract or 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 Indian Penal code (IPC)/Prevention of Corruption Act, or under any law 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 04 months 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 process or action can be taken for banning of business dealings/ holding 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/SUBCONTRACTORS:

- 1. The Bidder(s) / Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity 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 into 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 signed it. It expires for the Contractor / Vendor 06 months after the completion of work under the contract or 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 **AIIMS** of the Principal / Owner, who has floated the Tender.
- 2. Changes and supplements need to be made in writing. Side agreements have not been made.
- 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 turn out 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 Integrity Agreement/Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation** there of 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 relevent 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 / Contract documents with regard to any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity 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:

## ALL INDIA INSTITUTE OF MEDICAL SCIENCE RAIPUR Percentage Rate Tender/ Item Rate Tender & Contract for Works

Tender for the work of: "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur."

#### e-TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the AIIMS Raipur within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **Ninety (90) days** from the due date of opening of financial bid and not to make any modification in its terms and conditions.

A sum of ₹ 3,10,000.00/-is hereby forwarded in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank as earnest money. A copy of the earnest money in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank is submitted with tender. If I/We, fail to furnish the prescribed performance guarantee within prescribed tender, I/we agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the General Conditions of Contracts (CPWD). Further, I/we agree that in case of forfeiture of earnest money or performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(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 tendering in AIIMS Raipur in future for period as per decision of Engineer-in-Charge. 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 Deposited / Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived therefrom to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated #	· · · ·				•••		
---------	---------	--	--	--	-----	--	--

Signature of Contractor# Postal Address#

Witness : # Address: # Occupation: # applicable e-Mail id#

# To be filled in by the contractor/witness as

## **ACCEPTANCE**

(Rupees\_\_\_\_\_

The letters referred to below shall form part of this contract Agreement:-

a)		*
'		 

b) \_\_\_\_\_

c) \_\_\_\_\_

For & on behalf of the AIIMS Raipur.

Signature.....

Dated .....

Designation.....

### **GENERAL PARTICULAR & ADDITIONAL CONDITIONS OF CONTRACT**

#### A. GENERAL CONDITIONS

## Name of Work: "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur."

- For all items of Civil/Electrical/AC&R;- CPWD specifications with up to date correction slips up to receipt of tender shall be followed. For the items which are not covered under CPWD Specifications; B.I.S. specifications shall apply. In this regard the decision of Engineer-incharge shall be final.
- 2. Wherever any reference is made of any Indian Standard, it shall be taken as reference to the latest edition with all amendments/ revision issued thereto up to the date of receipt of tenders.
- 3. Unless otherwise specified, the agreement rates for all items of work of the schedule of quantities are for all heights, depths, leads and lifts involved in the execution of work.
- 4. Other agencies working at site will also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.
- 5. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contactor shall be bound to follow all such restrictions and adjust the program for execution accordingly, for which nothing extra shell be paid.
- 6. The work shall be carried out in a manner complying in all respects with the requirements of relevant by laws of the local bodies, Labour Laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
- 7. All malba/ rubbish/ silt/ waste, garbage etc. generated due to any operation from buildings/ houses/ hostels and other open spaces whatsoever shall be disposed off on daily basis by the contractor to the specified common disposal point. After the collection of full truck load of the said malba (approx. 4.5 cubic meters), the same shall be disposed off by the contractor to the authorized municipal dumping ground and nothing extra shall be paid on this account. In case of non- removal/disposal in the specified period, the same would be disposed at risk & cost of contractor.
- 8. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall not be allowed to erect any temporary set up for staff in the campus.
- 9. No claims of the labours shall be entertained by the Department including that of providing employment, regularization of services etc.
- 10. All required register will be issued by Engineer-in-Charge/Superintending Engineer duly marked in chronological order but the contractor will have to arrange all such registers/stationery etc. Nothing extra shall be paid on this account.
- 11. All T&P, scaffoldings, ladders/Hydra etc, instruments/meters for Construction, consumable and Contingent Articles required for execution of the work shall be arranged by the contractor.
- 12. The contractor shall make all safety arrangement required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise shall remain with the contractor. The department shall not be responsible for any mishap, injury, accident or death of the contractor's staff. No claim in this regard shall be entertained /

accepted by the department. Also Contractor is responsible to the damage caused to any man/material other that his team during execution and AIIMS will not be responsible for that.

- 13. Contractor shall be fully responsible for any damages caused to govt. property or allotter's property by his or his labor in carrying out the work and shall be rectified by the contractor at his own cost.
- 14. GST and other Taxes as applicable shall be recovered/ paid from the contractor's bill as per Govt. of India/AIIMS Rules.
- 15. Chases, holes & drilling works etc. shall be done using power operated tools in the cost of Contract. No extra will be paid for the same.
- 16. The agency shall restore back the premises and other articles provided by the department to the department at the time of closure of the contract.
- 17. In the case of discrepancy between the schedule of quantities, the Specifications and/or the Drawings, the following order of preference shall be observed :
  - a) Description of schedule of quantities.
  - b) Additional specifications and special conditions, if any.
  - c) Contract clauses of General conditions of contract for Central P.W.D. works. (iv) CPWD specifications.
  - d) Architectural drawings.
  - e) Indian standards specifications/ BIS. (vii) Sound engineering practice. Any reference made to any Indian standards specifications in these documents, shall imply to the latest version of that standard, including such revisions/amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
- 18. The contractor and /or his authorized agent should see the site order book every day and get the compliance of instruction given by the JE/AE/Engineer-in-charge (E-I/C) as per time schedule.
- 19. The contractor will not pitch up tents for laborers, materials and his stores etc.
- 20. No permanently / temporary huts / structures shall be constructed by the contractor at the site of work or at any government land / premises. Such structures, if any, found at the site or at AIIMS, Raipur land shall be demolished and removed at the cost of the agency without any notice.
- 21. Any damage to the building structure, fittings or any other articles etc. done by the contractor or his workman during the execution of the work shall be made good by the contractor at his own cost.
- 22. The contractor shall clear the site properly after the completion of the work.
- 23. The Agency shall be solely responsible for compliance to the provisions of various Labor and industrial laws, such as, wages, allowances, compensations, EPF, Bonus. Gratuity, ESI etc. as per labour law relating to personnel deployed by it at AIIMS, Raipur site or for any accident caused to them and the institute shall not be liable to bear any expense in this regard. The Agency shall make payment of wages to workers engaged by it by the stipulated date irrespective of any delay in settlement of its bill by AIIMS, Raipur for whatever reason. The Agency shall also be responsible

For the insurance of its personnel. The Agency shall specifically ensure compliance of various Laws / Acts, including but not limited to with their re-enactments / amendments / modifications etc.

- (a) The Payment of Wages Act 1936.
- (b) The Employees Provident Fund & MP Act, 1952.
- (c) The Contract Labor (Regulation) Act, 1970.
- (d) The Payment of Bonus Act, 1965.
- (e) The Payment of Gratuity Act, 1972.
- (f) The Employees State Insurance Act, 1948.
- (g) The Employment of Children Act, 1938.
- (h) The Motor Vehicle Act, 1988.
- (i) Minimum Wages Act, 1948.
- 24. Breach of Terms and Conditions: Noncompliance of any terms and conditions enumerated in the contract shall be treated as breach of contract. Or In Case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Raipur in that event the EMD and /or Performance Guarantee and/or security deposit shall also stands forfeited.
- 25. Termination of Contract: AIIMS, Raipur would have the right to terminate the contract by giving one month's notice before the expiry of the term, in case the work performance is not up to the standard, or in case there is any violation of AIIMS, Raipur rules & regulations, or if there is any lapse in compliance of any labor legislation, or if there is any incident of indiscipline on the part of the bidder or his staff and the agreement may be terminated by either party by giving one month's notice to the institution. The decision of AIIMS, Raipur's management in this regard would be final and binding on the bidder . In such an event, AIIMS, Raipur shall have the right to engage any other bidder to carry out the task.
- 26. Arbitration: The Arbitration shall be held in accordance with the provision of the Arbitration and conciliations Act, 1996 and the venue of arbitration shall be at Raipur. The decision of the Arbitrator shall be final and binding on the both parties.
- 27. Dispute Settlement: It is mutually agreed that all differences and disputes arising out of or in connection with this agreements shall be settled by mutual discussions and negotiations if such disputes and differences cannot be settled and resolved by discussions and negotiations then the same shall be referred to the sole Arbitrator appointed by the Executive Director, AIIMS, RAIPUR whose decision shall be final and binding on both the parties. The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.
- 28. Guidelines issued by Hon'ble National Green Tribunal in O.A. No. 21 of 2015 and O.A. No. 95 of 2014 in the matter of Vardhaman Kaushik Vs. Union of India & other and Sanjay Kulshreshtha Vs Union of India & ors: Air Pollution of Dust from Construction and Demolition activity reg. issued vide letter No. DPCC/EIA/Ref-001 to 172/NGT-21/2015/225-408 dt. 17/04/2015 shall be complied by the Bidders.

#### **B. TERMS & CONDITIONS FOR ELECTRICAL WORK**

1. The work shall be carried out strictly in accordance with CPWD specifications for Electrical works 2023 (Internal) and 2023 part-II (External) as amended upto date in

accordance with Indian Electricity Rules, 1956 India electrical Act, 2003 as amended upto date and as per instructions of the engineer-in-charge including as below and nothing will be paid extra.

- 2. The electrical work shall be carried out as per actual requirement and quantity is given in the schedule of work may vary of either side and it is side possible that some of the item given in the Schedule of work may not require to be executed. The decision of Engineer-in-charge of the work, in this regard, shall be final and binding on the Tenderers. However tenderers are required to quote their rates for all the items given in the schedule of works attached.
- 3. All materials to be used on this work should brought in by the contractor to facilitate testing before use and shall be got approved from the Engineer-in-charge before installation at site.
- 4. The work shall be carried out according to approved drawing/details which shall be subsequently issued to the successful tenderer for execution of work and as per instructions of the Engineer-in-charge who will have the right to change the layout as per requirements at site and the contractor shall not have any right to change in layout.
- 5. All damages done to the building during execution of Electrical work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-charge. Any expenditure incurred by in this condition shall be recovered from the contractor and decision of the Engineer-in-charge about recovery shall be final.
- 6. All the debris of the electrical works should be removed and the contractor should be clear the site immediately clear off any rejected material from the site.
- 7. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-in-charge. The program of electrical works are to be co-ordinate in accordance with the building work and no claim, for idle labor will stipulated in the tender, electrical work shall to be completed along with completion of civil work.
- 8. The contractor or his representative is to sign the site order book as & when required by the Engineer-in-charge and comply with the remarks therein.
- 9. The Contractor shall make his own arrangement at his own cost of electrical general tools and plants required for the work.
- 10. All materials to be used on this work shall be ISI marked & shall be got approved in written from the Technical sanctioning authority/Engineer-in-Charge before installation at site unless otherwise not covered under ISI.
- 11. Materials not being manufactured in India shall be CE marked & ENEC certified. In absence of any of above, materials shall be summarily rejected.
- 12. The makes, size of conduit and wires, shall be got approved from the Engineer-in-charge before taking up the execution.
- 13. Main Board and main distribution Board: the work shall be carried out according to the drawings/details as approved by the Engineer-in-charge, samples approved before the whole lot is brought to site and it shall include all inter connections etc. panel drawings shall be got approved before actual fabrication is taken up.

- 14. The connection, inter connection, earthing and inter earthing shall be done by the contractor where required and nothing extra shall be paid on this account.
- 15. Nothing extra shall be paid for inter connection with thimbles/wires/tapes/strips etc.
- 16. All interconnection in the panel, DB, cable-looping boxes shall be carried out with suitable cable commensurate with the current carrying capacity of incoming and outgoing cables complete with thimbles etc. as required for which nothing extra shall be paid.
- 17. Copper lugs shall be provided for terminating copper/aluminium/GI earth wire to all switchboards for which nothing extra shall be paid. All multi-stranded/ stranded wires shall be terminated through copper lugs.
- 18. Location of light fixtures, cable routes, power & light point etc. should be prepared & got approved from the Engineer-in-Charge before execution.
- 19. All panels, DB's, cable-looping boxes will be numbered and marked with paint / name plate, ferruling of circuit/submain etc and nothing extra will be payable on this amount.
- 20. All MCB, MCCB, MCB, DB's, RCBO's, RCCB with DB's shall be of same make / manufacturer.
- 21. Modular Switch / Socket's / Plates / Computer outlet / Telephone outlet and all accessories shall be of the single make only be provided. The contractor shall have to make the edges around the boxes wherever required shall have to be made by the contractor for which nothing extra shall be paid. The galvanized metal box shall be of the standard thickness as the GI boxes besides other requirement
- 22. The contractor shall have to provide the fish wire after removing the choking of the conduits. Even if subsequently the conduits are found chocked, the choking will be get removed and / or the new conduits shall be provided at the risk and cost of the contractor.
- 23. The contractor shall provide junction boxes / looping boxes of required sizes and such boxes shall be measured as part of conduit / batten wiring without any extra payment.
- 24. M.S. dash fastener shall be used for installation of fittings and fixtures in ceiling and for providing suspenders for the angle support, conduiting, cable tray etc. for which nothing extra shall be paid.
- 25. Wherever ceiling roses are not required to be provided in the light/fan/exhaust fan points, due to site conditions, the contractor shall use suitable three pin connectors for which nothing extra shall be paid. Wiring shall be carried out with FRLS wires
- 26. Contractor shall provide polythene/PVC plastic cover for all MDB's/SDB's/DB's, panels, feeder pillars etc to protect them from rust/damages, during execution of work till the work is actually completed and handed over to the department.
- 27. Cables:
  - a) Cables shall be bought from manufacturer only as per approved NIT.
  - b) The length of the cables required shall be measured w.r.t. site condition and these shall be delivered in section of approved length only, to avoid jointing as far as possible.
  - c) Cable delivery shall be scheduled in consultation with department only.
- 28. Earthing connections:-

a) All fans & fittings are to be properly earthed for which no extra will be paid.

- b) Proper sleeving is to be provided to bare earth conductor in the switch boxes and also to bore Conductors used for inter switch looping inside the switch boxes for which no extra will be paid.
- c) Termination of wiring inside DB's & main boards should be by crimped connections
- d) Clamp type termination of earth strip (wherever provided) to pipe electrode will be made
- 29. The contractor shall bear all the expenses for the testing of the electrical material / switch gears etc. form the designated lab, as desired by Engineer-in-charge.
- 30. All repairs & patch work shall be neatly carried out to match with the original finish & all damages caused to the building installation during the execution of work shall have to be made good by the contractor immediately at his own cost to the entire satisfaction of Engineer-in-charge.
- 31. The entire installation shall be at risk and responsibility of the contractor until these are tested and handed over to the department.
- 32. Some of the items of work, if already executed in that case the successful tender shall have to use these items for completing the work. For wiring, the existing conduit wherever available / required shall be used by the contractor. The recovery will be made for these items at accepted rate of other agencies.
- 33. Watch and ward of the material shall be the responsibility of the contractor till they are handed over to the department for which nothing extra shall be paid.
- 34. The contractor shall ensure that the staff employed by him for execution of the electrical work, possess the valid electrical license issued by competent authority. Consequences arising due to the default of the contractor in not complying with the above condition shall be the responsibility of the contractor.
- 35. The contractor shall abide the specifications given in the tender where the specifications are not given CPWD specifications with as on date amendments shall be followed. Items where CPWD specifications are not covered, the decision of Engineer-in-charge shall be final and binding.
- 36. The contractor shall also assess the quantities of various items involved in the work and shall procure the material accordingly. If excess material is produced, it shall be the responsibility of the contractor and department will not pay for unused quantity.
- 37. In case any extra quantity gets procured in running bills i.e. more than to be, it shall be taken back and amount shall be adjusted.
- 38. The contractor/supplier shall have to produce all the relevant records to certify that the genuine material from the manufacturers has been supplied and erected. The invoice/challan of the materials shall be invariably submitted. Custom clearance paper in respect of materials imported from outside country reqd. to be submitted.
- 39. All the LED Bulbs / LED Fittings shall be guaranteed for a period of 3 years. In case of any defects during this period shall be got rectified without any extra cost.
- 40. Contractor shall be mandatorily be required to provide to the engineer-in charge certified copies of original invoices of all kind of materials, T&P etc. being used or procured for this agreement. Failure to provide any of such information to engineer-in charge to his satisfaction shall render the contractor ineligible for payment for such items and no claim what so ever on this account shall be admissible and decision of engineer-in charge in

this regard shall be final and binding.

## C. TERMS AND CONDITIONS FOR AC&R WORK

- 1. The bidder shall visit the site and understand the nature & scope of the work and doubts of any nature and should be got clarified before quoting. Agency ascertains themselves with all the rules and regulations of the premises of AIIMS Raipur.
- 2. Packaging, forwarding, storage and safe-keeping of all the supplied materials shall be the sole responsibility of the bidder irrespective of the location of the material. Agency is responsible for all the materials on site (finished or unfinished). Any loss or damage cause to the materials incidental or otherwise shall be borne by the agency. The Institute shall assume no responsibility in this regard under any circumstances.
- 3. The equipment offered shall conform to the specifications as given in tender and shall be guaranteed against defective design, defective quality material supplied, manufacturing defects etc. for a minimum DLP period.
- 4. The Agency shall give guarantee for the work executed and shall be responsible for the defects occurred during the period of 12 months after the completion of work and shall rectify the same at his own cost. The agency also gives one year warranty of Air conditioning machine.
- 5. SITC for Machine must be carried out by the bidder, quarterly servicing will be done by the bidder within warranty period. The Contractor shall ensure running equipment's are available at default rated parameters & capacity. extra amount of refrigerant (if required) to run air conditioner as per parameters in the scope of agency. The healthiness of Air conditioning machine shall be ensured with no water or refrigerant leakage, no abnormal sound, proper setting of thermostats and their tripping etc.
- 6. Damage to the building during execution of work shall be made as good as previous by the contractor, otherwise penalty will be imposed by the Engineer-In-Charge which will be final & bound to contractor.
- 7. The contractor shall handover the Air conditioning machine in healthy and working condition to the department after completion of work and any shortcoming / missing parts noticed at the time of handover shall be made good by the contractor free of cost, otherwise necessary deduction will be made from the bill which is bound to the contractor.
- 8. The agency shall ensure that its employees while on AIIMS Raipur premises or while carrying out their obligations under this contract, observe the standards of cleanliness, decorum and general discipline lay down by AIIMS Raipur. After completion of work area should be cleaned. The cleaning of dust, Oil Spillages, Welding butts, Metal Scraps, used nut bolts & all other scrap removal shall be in contractor's scope. Handling of Scrap generated arises on account of activities or any kind of material handling will be in agency scope.
- 9. Any malba generated due to dismantling/maintenance shall be cleared from the site of work immediately without any extra cost failing which same shall be done by the department and suitable recovery shall be made from the contractor.
- 10. All works related to installation of Air conditioning machine like making holes in the walls for passage of copper tubes and electrical cables, mounting of stands, minor Civil work

like cutting of existing false ceiling and fitting of AC indoor unit etc. shall be done by the agency and all tools, and tackles including ladder etc. shall be arranged by the agency. However, for loading / unloading of Air conditioning machine in the scope of agency. the AIIMS Raipur shall not provide any labour to the contractor for lifting or transportation of the Air conditioning machine.

- 11. Agency shall be provides all spare parts list with their prices and It is mandatory to provide O&M user /maintenance manual after completion of work.
- 12. At the time of acceptance of the tender, agency shall furnish the details of workers along with contact details.
- 13. The contractor or his representative should not remove, disturb and dislocate the existing equipment and its parts from its positions until and unless it is authorized by the Engineer (AC/R).
- 14. Any of the skilled or unskilled workers at site found not up to the standard or undesirable will be required to be forthwith removed by the agency. If found under the influence of the above, contracting firm shall have to change /replace him, failing which we may terminate the contract.
- 15. Agency shall arrange to render efficient service as outlined by AIIMS Raipur. If due to any reason, the firm is not able to do the work, the same shall be got done from some other firm or from the open market at the risk & cost of the contractor and the expenditure incurred there on shall be recovered from the contractor including penalty imposed by the Engineer-In-Charge which will be bound to the contractor.
- 16. The agency will have to carry out the work in accordance with the drawings technical specifications / or other conditions after allocation of work and to the full satisfaction of AIIMS Raipur.
- 17. No accommodation for the labourers will be allowed within AIIMS Raipur.
- 18. Installation site distance between Indoor Unit and Outdoor Unit is deferment meters, therefore normal supply of copper tubing, insulation pipe and water drain pipe shall be accordingly and default parameter achieved as per this.
- 19. Installation, testing and commissioning report as per default parameter and 72 hour testing report duly certified by Engineer (AC&R).
- 20. It is expected from the agency that all the items specified for supply in the tender shall be strictly in accordance with the standards and quality specification by the respective manufacturers. Therefore the bidders are advised to go through the specifications of the items before submitting the bids.
- 21. The Bidder ensures that the items supplied against this tender are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials. The Bidder further ensures that all items/goods supplied against this tender shall have no defect arising from design, materials or workmanship.

### D. GENERAL CONDITIONS FOR SUPPLY OF MATERIAL

1. The material shall be as per CPWD specifications with up to date correction slip and BIS Specifications wherever mentioned and as per List of approved makes (enclosed).

- 2. In the event of any variation between CPWD specifications and that in the IS Code the former shall take precedent over the later. In the event of variation between he nomenclature of item as per schedule of quantities and specifications, the former shall prevail.
- 3. *Material will be supplied by the contract or within 03 days after giving he requirement otherwise suitable amount imposed as a penalty shall be recovered from contractor's bill after giving notice as decided by the Engineer in charge. However, the materials in urgent nature shall be supplied within 02 03 Hours.*
- 4. The sample of all the items shall have to be got approved by the Contractor from the Engineerin-Charge/Superintending Engineer or his Representative before the supply commences, the approval of sample shall be only in respect of workmanship and finish, and shall be without prejudice to the right of Engineer-in-Charge to get random samples tested out of the actual lot received as per additional conditions. This decision is the Prerogative of Engineer-in-Charge.
- 5. The contractor shall if required furnish the manufacturer's certificate that the material supplied satisfy the requirements of the relevant specifications.
- 6. The Engineer-in-Charge shall be at liberty to test respective sample (s) of each item of schedule of quantity in any approved laboratory as decided by him. The sample for testing shall be provided by the contractor. If the test proves satisfactory and the material is accepted, the testing charge in respect of satisfactory test shall be borne by the *department* contractor.
- 7. All other expenditure required to be incurred for making available the sample, conveyance and packing etc, shall be borne by the contractor himself. In case any sample of particular lot fails in testing the contractor shall be bound to replace the entire lot with fresh material of prescribed specifications and the rejected lot shall only be returned to the contractor after fresh lot is supplied. Testing charges in respect of failed sample will be borne by the contractor himself.
- 8. Rejected materials shall have to be removed by the contractor at his own cost within a week of the instructions of doing so. Also go down rent as decided by Engineer-in-Charge shall be charged by the department.
- 9. In case of any dispute regarding rejection of quantity of materials the decision of Engineer-in-Charge shall be final and binding upon the contractor.
- 10. Conditional tenders are liable to be summarily rejected.
- 11. The rates shall be quoted only in the schedule of quantities attached with the tender and nowhere else i.e. letter heads etc.
- 12. The contractors are specifically required to quote only one rate against each item. The rate Quoted for any item of material shall conform to the prescribed specifications.
- 13. The quantities are approximate and are liable to change up to any extent on either side. The Engineer- in-Charge reserves right to order deviation from the quantities mentioned in the tender. The contractor shall supply the additional quantity on the rates quoted in the tender documents irrespective of deviation limit mentioned elsewhere in the agreement. The contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which might have derive from the execution of supply in full as mentioned in tender but which did not derive any consequence of the full supply of material mentioned in tender not having been ordered. It is not necessary to use all items in the BOQ/Schedule during contract Period. The use shall be based on the requirement at Site. Contractor cannot claim Payment against Storage of items to maintain the deadline of completion of work as per Tender.

- 14. The maker of material shall be same as that of actually installed/fixed at site. But, in case of non-availability or due to any reason, Engineer-in-Charge can take decision to install equivalent/new items available in the BOQ/Schedule. In case of any dispute the decision of Engineer-in-Charge shall be final with regards to make/brand of material.
- 15. For materials used in this work, the record shall be maintained at site in a standard Performa to watch quality and consumption of the material.

#### E. SCOPE OF WORK FOR CAMC OF AIR CONDITIONING SYSTEM

#### i. **GENERAL**

The scope of work in this section cover comprehensively Servicing, Maintenance, Repairing of the Air conditioning system comprising preventive and breakdown maintenance for their smooth functioning as per direction of EIC.

### ii. **SCOPE**

### Monthly Maintenance -

- 1) Check all filters, fans, cooling coils, Refrigerant Gas make up etc & top up if required.
- 2) Tightening of belts, foundation bolts of equipment, alignment of belt pulleys and couplings, Drain Pipe Rectify if any.
- 3) Examining indoor/outdoor units & operating linkage for smoothness Rectify if any.
- 4) To check the gland / seal, coupling of units Rectify if any.
- 5) To check the safety controls mechanical, Electrical/ Electronics and inter locking of the various equipment rectify if any.
- 6) To check all piping/insulation/proper positioning/damage /Leakage and rectifying the same where ever required, Rectify if any.
- 7) Inspect/check entire line for leakage and rectification of leakage, if any & make operational unit after Leakage testing and required Gas Charging.
- 8) To check and lubricant (if required) the bearing of the fans/motors and keep the proper record.
- 9) To check the foundation bolts of the units/motors and to take the necessary action if required.
- 10)Check the quantity of Air flow/CFM from various Indoor of AC units as per required.
- 11) Check the performance of AC unit for proper functioning.
- 12) Any other job required to be attended during course of Checking and to keep the ACs in perfectly working conditions.
- 13) Check Performance of compressor/Condenser and inform to A.E (AC&R) if any fault found.
- 14) Check Cable, PCB,3 pin Top, Evoraotor, Mother board, Capacitor, Contractor ,Insulation, Pump, Capillary, Swing Motor, Fan blade, Fan motor etc. & Rectify/Replaced as per required capacity if any.
- 15) The consumables and spares shall be of best standard and shall be approved by the

Engineer In charge before use.

16) Agency will have to maintain register of monthly work of each AC unit as per given format.

### **Quarterly Maintenance-**

- 1) Checking / setting / rectification of all safety and automatic controls.
- 2) Complete cleaning of indoor/outdoor units with Jet pressure & suitable detergent.
- 3) Functional checks & rectification of the same if required.
- 4) Any other job required to be attended during course of checking and to keep the ACs in perfectly working conditions.
- 5) Maintenance of ACs Electrical Panels are also within the Vendor's scope of work.
- 6) The gas charging in ACs system will be executed by vendor, whenever required.
- 7) Attending complaints of systems which include routine as well as breakdown maintenance of all the system.
- 8) Following consumables & general spares / items required for smooth operation of all the AC system
  - a) Refrigerant Gas- R22/R-32/R-407/R-410 etc. as required.
  - b) Lubricating oil /grease for movable parts.
  - c) Packing / Couplings / gaskets / insulation material / other general spares.
  - d) All AC spares e.g. Fuses / Relays/ contactors/ Capacitors/ Cable/PCB/ Mother board/Motor/HP/LP Switch /belt/ thermostat /overload relays/Capillary/Servo Motor/Drain pump/3 Pin Top/AC Timer/Thimble /Expansion valve /AC grill/Outdoor stand /Air Filter/Motor winding/Drain piping etc. check Rectify/replaced as per required capacity and make AC Unit operational.
  - e) Indoor units Filter /Belts / Bearings / Valves / Evaporator Other spares etc. rectification /Replacement as required.
- 9) All tools & tackles, manpower, transportation and other resources required for executing the job shall be in the scope of the contractor. No extra charges will be paid regarding tools & tackles, manpower, transportation etc.
- 10) Control panel card, Software etc. which may be required during maintenance of the AC system will have to be supplied and installed by the contractor as per instruction of the Engineer in charge.
- 11) The compressor will be checked for its proper functioning and if any defect is found, the same will be replaced as per decision of Engineer In charge.
- 12) Safety controls such as pressure cut outs will be tested for proper functioning and in case of any malfunctioning; they will be either repaired or replaced accordingly.
- 13) The control boards/ PCBs of the IDU & ODU will be checked for its proper functioning and if any defect found, the same will be rectified/replaced.
- 14) Air filters will be inspected and cleaned or replaced as required. Painting of outdoor stand ACs as per instruction.
- 15) The blower motor will be checked and any defects noticed will be attended to rectified/replaced.

- 16) Any defect in the electrical items and control wiring will be attended.
- 17) Required Refrigerant gas will be topped up in the system as and when necessary.
- 18) The Condenser/Evaporator fan motor shall be rectify/replaced if any.
- 19) Any Leakage in the condenser coil/ refrigerant piping rectified after leakage Testing.
- 20) Performance of compressor will be inspected and repaired, if necessary. if any compressor not repairable then inform to AC&R Engineer and decision of Replacement will be taken by AIIMS Engineer only.
- 21) Agency will have to maintain register of Quarterly Maintenance work of each AC unit as per given format.
- 22) All spares and consumables shall be arranged by the contractor for which nothing extra shall be payable as per schedule. Replaced parts/ spares etc (faulty parts) will be property of AIIMS Raipur.
- 23) All the general & special tools, tackles required for proper maintenance and repairs/break down etc, shall be arranged by the contractor at his own cost.
- 24) The consumables and spares shall be of best standard quality/Compatible and shall be approved by the Engineer In charge before use.
- 25) All the maintenance works shall be carried out in accordance with the manufacturer's specifications and instructions of the Engineer In charge or his representative A.E (AC&R).
- 26) Agency shall have to inspect overheating condition of AC unit and to avoid overheating condition necessary rectification will be carried out on urgency basis. If fire hazard happen due to overheating of AC unit then all responsibility will be agency.

#### iii. Penalty clause

All the specific complaints about the AC system brought to the working agency shall be attended promptly. Any delay in attending the complaints shall be viewed seriously and penalty shall be imposed on the contractor as deemed fit by the Engineer-In-Charge.

- a) If Faults not rectified within 24 hour @ Rs 500/- per day per unit.
- b) Replacement of compressor, PCB if not done within 72 Hrs. @ Rs. 1000/- per day/ per unit.

e-sign by Susanta Kumar Bose Superintending Engineer AIIMS, Raipur

# FORM OF EARNEST MONEY DEPOSIT

#### (Bank Guarantee Bond)

(1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date<sup>\*</sup> ...... after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in- Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE .....SIGNATURE OF THE BANK

WITNESS .....

SEAL (SIGNATURE, NAME AND ADDRESS)

\*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

# Form of Performance Security (Guarantee) Bank Guarantee Bond-Format – I

(On a stamp paper of appropriate value from any Nationalized Bank or Scheduled Bank)

To EXECUTIVE ENGNEER, AIIMS RAIPUR, TATIBANDH, RAIPUR – 492099

Dear Sir,

In consideration of the AIIMS Raipur having offered to accept the terms and conditions of the proposed agreement between.....and M/s ..... Contractor(s)") said for the work (hereinafter called "the ..... ...... (hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs. ..... (Rupees ...... only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We, ...... (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. ..... (Rupees........... Only) on demand by the AIIMS Raipur.

3. We, the said bank further undertake to pay the AIIMS Raipur 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. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We, ...... (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the AIIMS Raipur 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 certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the AIIMS Raipur or any indulgence by the AIIMS Raipur 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.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

7. We, ..... (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.

8. This guarantee shall be valid up to .....unless extended on demand by the AIIMS Raipur.

Dated the ......day of .....

for.....(indicate the name of the Bank)

#### SPECIAL CONDITIONS OF CONTRACT

### 1. GENERAL

- 1.1 Wherever any reference to any Indian Standard Specifications of BIS or other International standards of ASTM/BS/EN occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.2 The contractor shall work according to the programme of work as approved by the Engineer-in-charge, for which purpose, the contractor shall submit a programme of the work within 07 days from the stipulated date of start of the work based on computer software and shall update the same every fortnight.
- 1.3 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
- 1.4 If as per Municipal or prevailing rules of the secured campuses owned by paramilitary forces, Institutions etc, the huts for labour are not to be erected at the site of work by the contractors, the contractors shall provide such accommodation at such locations as are acceptable to local bodies with all provisions concerning labour safety & sanitation as contained in the relevant clause of the contract, for which nothing shall be payable.
- 1.5 Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
- 1.6 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-7<del>/8</del>, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.7 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.
- 1.8 The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned.
- 1.9 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge. The contractor shall be responsible for any damage due to hindrance caused by him.
- 1.10 Cast iron pipes and fittings without ear shall be used. However, pipes and fittings with ears may be accepted without any extra payment. In such cases, clamps are not required and no extra payment shall be made for fixing the pipes in a different manner.
- 1.11 Any cement slurry added over base surface for bond or for continuation of concreting, for protecting reinforcement bars, its cost shall be deemed to have been included in the

respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.

- 1.12 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 at any stage shall have to be done by the contractor at his own cost.
- 1.13 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.14 Only Star headed Stainless Steel screws shall be used unless otherwise specified.
- 1.15 Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.
- 1.16 Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
- 1.17 The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
- 1.18 The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer in -Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications.
- 1.19 Damage to the building during execution of work shall be made as good as previous by the contractor, otherwise penalty will be imposed by the Engineer-In-Charge which will be final & bound to contractor.

### 2. <u>RATES</u>

- 2.1 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- 2.2 The rates quoted by the bidder, shall be firm and inclusive of all taxes and levies.
- 2.3 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 2.4 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of telephone,

water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement & other storage, fabrication yard, site laboratory, water tank etc.

- 2.5 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- 2.6 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

#### 3. <u>CLEANLINESS OF SITE</u>

The Contractor shall not stack building material / malba / muck/ rubbish on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges / penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

#### 4. INSPECTION OF WORK

In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the Engineer-In-Charge, AIIMS Raipur and other senior officers of AIIMS Raipur and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineerin-Charge or other officers as stated above to visit the works shall have been given to the Contractor, either himself be present to receive the orders and instructions or have a responsible Site Engineer duly accredited in writing, to be present for that purpose Senior Officers of AIIMS Raipur Authorities shall also be inspecting the on-going work at site at any time with or without prior intimation.

#### 5. <u>CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/SUB-</u> CONTRACTORS

5.1 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general .The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipment's for execution of the work, so as to cause minimum environmental pollution of any kind during construction. Further, the Contractor shall take all precautions to abide by the environmental related restrictions imposed by Pollution control board.

Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

5.2 The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify STC, BSF, authorities.

Against any claim(s) arising out of such disputes. The Contractor shall:

- (i) Allow use of scaffolding, toilets, sheds etc.
- (ii) Properly co-ordinate their work with the work of other Contractors.
- (iii) Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
- (iv) Provide electricity and water at mutually agreed rates.
- (v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
- (vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
- (vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
- (viii) Resolve the disputes with other Contractors/ sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.
- 5.3 The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, firefighting, information technology, communication & electronics and any other services.
- 5.4 Other agencies will also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 5.5 The contractor shall conduct his work, so as not to interfere with or hinder the progress or

completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordinate manner and shall perform it in proper sequence to the complete satisfaction of others.

#### 6. SAFETY MEASURES AT CONSTRUCTION SITE

In order to ensure safe construction, following shall be adhered for strict compliance at the site:-

- (i) The work site shall be properly barricaded.
- (ii) Adequate singnages indicating 'Work in Progress Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- (iii) The construction malba at site shall be regularly removed on daily basis.
- (iv) All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- (v) Proper MS pipe scaffoldings with work platforms and easy-access ladders shall be provided at site to avoid accidents.

Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract.

#### 7. FIELD TESTING INSTRUMENTS

(Following instruments in sufficient quantity as directed by the Engineer- in- Charge shall be made available by the contractor. It shall be ensured that the instruments always remain in serviceable condition else the same will be replaced. In case of non-availability of instrument Engineer-In-Charge will purchase the same and the invoice amount will be deducted from the bill and will be bound to contractor in the interest of work.

- (1) Steel tapes 3 m / 5m / 7.5m / 15m / 30m
- (2) Vernier Calipers.
- (3) Micrometer screw 25 mm gauge.
- (4) A good quality plumb bob.
- (5) Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical.
- (6) Wire gauge (circular type) disc.
- (7) Foot rule.
- (8) Long nylon thread.
- (9) Rebound hammer for testing concrete
- (10) Dynamic penetrometer.
- (11) Magnifying glass
- (12) Screw driver 30 cms long
- (13) Ball pin hammer, 100 gms.
- (14) Plastic bags for taking samples
- (15) Moisture meter for timber
- (16) Earth resistance tests
- (17) Total station

- (18) Multimeter,
- (19) Meggar
- (20) Refrigerant Leak detector
- (21) Pipe Bender
- (22) Thermometer
- (23) Hygrometer
- (24) CFM Meter
- (25) Step Ladder
- (26) Cordless drill

### 8. <u>THE CONTRACTOR SHALL SUBMIT 'METHOD STATEMENT' FOR THE APPROVAL SOON</u> <u>AFTER THE AWARD OF WORK</u>

'Method Statement' is a statement by which the construction procedures for important activities of construction are stated, checked and approved. Method Statement shall have description of the item with elaborate procedures in steps to implement the same. The specification of the materials involved their testing and acceptance criteria, equipments to be used, precautions to be taken, mode of measurements etc.

#### 9. TESTING OF MATERIALS

- 9.1 The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing unless specified otherwise. In all cases cost of samples and to & fro carriage shall be borne by the contractor. Contractor shall establish a laboratory at site of work at his own cost. The laboratory shall be equipped with all necessary equipment as per requirement of specification or as per direction of Engineer-in-Charge. A list of laboratory equipment to be maintained by the contractor is enclosed at Para 13 page 40 & 41. Establishing the laboratory at site shall not absolve the contractor from fulfilling the criteria of getting the test done in independent approved laboratories as per DG, CPWD, O.M. No. DG/MAN/308 dated 29.05.2014. The decision of the Engineer-in-Charge of allowing any test in the site laboratory shall be final.
- 9.2 Even ISI marked materials may be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/material. Whenever ISI marked materials are brought to the site of work the contractor shall, if required by the Engineer-in-Charge, furnish manufacturer test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfy the provisions of IS codes relevant to the material and/or the work done.
- 9.3 Substandard Material/Work: In case any material/work is found substandard the same shall be rejected by the Engineer-in-Charge and the same shall be removed from the site of work within 48 hour, failing which the same shall be got removed by the Engineer-in-Charge at the risk and cost of the contractor without giving any further notice and time.

### SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES

- 1. The main contractor shall have to associate other specialized agency(s) (Joint ventures are not accepted) for execution of each of the these specialized work(s), who fulfils the eligibility criteria as defined in Eligibility of Bidder, within 7 days of issue of letter of intent and also after taking prior approval from the Engineer in charge.
- 2. The agency shall submit the similar work experience documents in respect of experience of having satisfactory completed similar works as defined in Eligibility of Bidder.
- 3. However the main contractor shall also be eligible to carry out himself any or all of the above specialized works without associating any specialized agency provided:-

The main agency fulfills the prescribed eligibility criteria respectively for the above specialized work(s).

- 4. The intending bidder if does not possess eligibility criteria for specialized works or he could not associate any specialised agency for specialized works before tendering then he shall upload an undertaking that if "I/We shall become the lowest tenderer then I/We shall submit the documents of Associated specialized Agencies/OEM/Authorized service provider of the specialized E&M services as per the eligibility criteria mentioned in the special conditions of NIT for association of specialized agencies after acceptance of tender along with Performance Guarantee.
- 5. The main contractor shall have to submit documents such as self attested copies of Certificates of Work Experience/Completion issued by client department clearly indicating
  - 1.Name of work
  - 2. Scope of Work
  - 3. Agreement No.
  - 4. Estimated Cost
  - 5. Tendered Cost
  - 6. Final Value of Work Done
  - 7. Date of Start
  - 8. Stipulated date of Completion
  - 9. Actual date of completion
- 6. Nature of the Work etc. (In case some of above said details are not mentioned in the Completion certificate, the firm shall attach sample proof in support of above details), self attested copy of valid Electrical contractor license, GST registration of the proposed associated specialized agencies for verification (if required) and for approval of the department as per eligibility requirement mentioned in above condition no.3 after acceptance of tender alongwith Performance Guarantee. Main contractor shall also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board of proposed associated specialized agencies along with above documents.
- 7. Consent letter of such selected associated specialized agencies for association shall also be enclosed in the prescribed format as per FORM-A along with documents mentioned.

- 8. If the main contractor fails to submit all the documents of the proposed associated specialized agency(s) as mentioned as above, after acceptance of tender along with Performance Guarantee then department shall reject his/her tender.
- 9. After approval of associated specialized agencies by Engineer-in-charge, the main contractor will submit MOU signed with the associated specialized agency as per FORM-B in shape of affidavit on stamp paper duly attested by notary in original within 7 (Seven) Days after issue of approval letter (for associate specialized agency). The MOU shall be signed by both the parties i.e. main contractor As 1st party and associated specialized Agency as 2nd party, independently for all specialized work(s).
- 10. All technical discussions during currency of the contract shall be attended by the associated specialized agencies and the main contractor. Commercial/Technical submissions for the specialized work(s) shall be signed and submitted by the associate specialized agencies along with the main contractor.
- 11. The associated specialized agencies and the main contractor shall attend the site during inspection of the work by the Engineer in Charge or higher authority.
- 12. The main contractor shall be entirely responsible and answerable for all the works done by his associated specialized agency regarding their quality, adherence to the laid down specification, terms and conditions, warranty/guarantee etc as per the agreement and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.
- 13. In the event of the concerned Associated specialized Agency not performing satisfactorily or failure to complete the specialized works(s), the main contractor on written directions of the Engineer in charge, shall remove the Associated specialized Agency deployed on the work and shall submit name of new associated specialized Agency as per eligibility criteria mentioned in the NIT to execute the left over specialized work(s) without any loss of time after completion of all formalities mentioned as above. Also if main contractor wants to change the associated specialized agency during the currency of the contract he shall submit name of new associated specialized Agency as per eligibility criteria mentioned in the NIT to execute the left over specialized agency as per eligibility criteria mentioned in the NIT to execute the left over specialized work(s) after completion of all formalities mentioned as above.
- 14. The main contractor shall be responsible and liable for proper and complete execution of the all works including specialized work(s) and ensure coordination and completion of all associated specialized works.
- 15. Running payment for the work shall be made to the main contractor. In case main contractor fails to make the payment to the associated specialized agency(s) by him within 15 days of receipt of each running account payment then on the written complaint of any associated specialized agency(s) for such work, Engineer in Charge shall serve the show cause to main contractor and after considering the reply of the same he may make the payment directly to the concerned associated specialized agency(s) for the work as per the terms & conditions of the agreement/M.O.U. drawn between main contractor and associated specialized agency(s) fixed by him, if reply of main contractor either not received or found unsatisfactory. Such payment made to the associated specialized agency(s) shall be recovered by Engineer in Charge from the next RA/final bill due to main contractor as the case may be.

#### FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME

#### (PART – I)

- 1. Name of contractor
- 2. Name of work as given in the agreement
- 3. Agreement no.
- 4. Estimated amount put tender
- 5. Date of commencement of work as per agreement
- 6. Period allowed for completion of work as per agreement
- 7. Date of completion stipulated in agreement
- 8. Period for which extension of time has been given previously:

	SE's letter no. and date	Extension g	ranted
		Months	Days
(a) 1st extension			
(b) 2nd extension			
(c) 3rd extension			
d) 4th extension			
(e) Total extension previously			
given			

- 9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
- 10. Period for which extension if applied for
- 11. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last.

Serial	Nature of	Date of	Period	Period for	Overlapping	Net	
no	hindrance	occurrence	for which	which	period if	extension	Remarks,
			it is likely	extension	any, with	applied	if any
			to last	required	reference to	for	
				for this	item.		
				particular			
				hindrance			
a	b	С	d	е	f	g	h

Total period on account of hindrances mentioned above...... Months ...... Days

- 12. Extension of time required for extra work.
- 13. Details of extra work and the amount involved:
  - a. Total value of extra work
  - b. Proportionate period of extension of time based on estimated amount put to tender on account of extra work.
- 14. Total extension of time required for 11 & 12

Submitted to the Sub Divisional Officer .....

# Signature of contractor Dated:.....

#### GUARANTEE BOND TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

The Agreement made this ...... day of ..... two thousand and ..... between ..... son of ...... of ..... of ..... (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated ...... and made between the GUARANTOR of the one part and the Government of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for five years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be five years to be reckoned from the date after the Construction period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

(a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;

(b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;

(c) The decision of the Engineer-in-Charge with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the Engineer- in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if GUARANTOR fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor .....and by .....and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

Signed,	sealed a	and deli	vered by	OBLIGOR	in the	presence of
---------	----------	----------	----------	---------	--------	-------------

1.

2.

Signed for and on behalf of THE PRESIDENT OF INDIA by ..... in the presence of

### LIST OF SPECIALIZED ITEMS / JOBS

List I - Civil Works

- 1. \*\* Water proofing treatment work.
- 2. Steel work in steel bridge work, space frames for long span structures, steel towers.
- 3. \*\* Special foundations including all types of piles.
- 4. RCC Overhead Tank with independent staging.
- 5. Structural Repair and Rehabilitation/ Retrofitting works.
- 6. Soil Investigation and Survey Work.
- 7. \*\* Facade cleaning system and façade cleaning.
- 8. Custom made wooden furniture (factory made).
- 9. Diaphragm walls.
- 10. Post construction Anti-termite chemical treatment.
- 11. Water Treatment Plants
- 12. Security to vacant bungalows/premises.
- 13. Tentage works.
- 14. Washing/dry cleaning works.
- 15. Synthetic play area surface for games.
- 16. Electronic / Digital Signages.
- 17. Environment Impact Assessment Study and Environment Clearance.
- 18. Mechanized Housekeeping Work .

Note:

\*\*For these works, Specialized Agencies shall have to be associated by the duly approved specialized agency by Engineer-In-Charge in case the Contractor does not possess the requisite eligibility and experience as per the NIT conditions to carry out these works..

#### **Electrical Works**

### LIST- II (A)

- S. No. Supplying /fabrication, installation, testing and commissioning of the following
- 1. Kitchen equipment
- 2. Lifts, escalators and conveyors
- 3. Simultaneous interpretation systems
- 4. Gas plants.
- 5. Cold storage plant
- 6. Hot Water/Steam Boilers
- 7. Public address system; conferencing system, automatic vote recording system, recorders
- 8. Stage lighting
- 9. Projector and other special equipment for theatre
- 10. Repairs and calibration of various types of measuring instruments and relays etc.
- 11. Testing of transformer oil and dehydration and other type of high potential test.
- 12. Frequency Convertor
- 13. Temporary illumination, security lighting and wiring for power outlets for metal detectors in connection with Republic Day and Independence Day Celebrations.
- 14. EPBAX system (equipments).
- 15. EPBAX system (cabling and wiring).
- 16. Illumination of heritage caves and fiber optic lighting system
- 17. Security system and alarm
- 18. Building Automation System
- 19. Hydraulic platform /Lift
- 20. Incinerator
- 21. Laundry equipment
- 22. Centralized clock system.
- 23. Interior/exterior flood lighting of heritage/Monumental buildings/structures involving Computer aided design and evolution of special mounting arrangements for luminaries:

24. Gas pipe line

- 25. Modular OT
- 26. Electrically Operated Gate
- 27. Fountain Work
- 28. Water supply motors and pumps of 100 hp or more
- 29. Mechanized Car Parking Systems
- 30. VRV/VRF Type Air-Conditioning Systems
- 31. Oxygen Generation Plant
- 32. CCTV and Allied Equipments
- 33. Access Control System
- 34. Hydro Pneumatic Pumps
- 35. Providing and fixing of Sensor operated Gates
- 36. Precision Air Conditioning System
- 37. LAN System
- 38. SITC of active power factor filter
- 39. SITC of Solar Photo Voltaic Power generation system

### LIST-II (B)

- S. No. Supplying /fabrication, installation, testing and commissioning of the following
- 1. Diesel Generating Set
- 2. Heating, Ventilation and Air-conditioning System
- 3. Sub-station equipment
- 4. Fire fighting system (including wet riser and sprinkler system, portable fire extinguishers)
- 5. Fire detection and alarm system

### **NO CLAIM CERTIFICATE**

#### (On company letterhead)

To,

Superintending Engineer, Project Cell, AIIMS, Raipur

Name of Work

Agreement No.

Sub: No claim declaration / certificate

We have received the sum of Rs. (Rupees .....only) in full and final settlement of all the payments due to us for the above stated work under the above mentioned contract agreement, between us and AIIMS, Raipur. We hereby unconditionally, and without any reservation whatsoever, certify that with this payment, we shall have no claim whatsoever, of any description, on any account, against Procuring Entity, against aforesaid contract agreement executed by us. We further declare unequivocally, that with this payment, we have received all the amounts payable to us, and have no dispute of any description whatsoever, regarding the amounts worked out as payable to us and received by us, and that we shall continue to be bound by the terms and conditions of the contract agreement, as regards performance of the contract.

Yours faithfully,

Signatures of contractor

or Officer authorised to sign the contract documents

on behalf of the contractor

(Company stamp)

Date: .....

Place: .....

### **APPROVED MATERIALS LIST (CIVIL)**

Note:

- 1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
- 2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
- 3. Whenever the specified brand of material is not available then, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

1.	Acid/Alkali Resistant Tile	Somany/ Nitco/ Kajariya/ Bell
2.	Premium Acrylic Emulsion Paint:	Asian (Royale)/ ICI (Velvet)/ Berger (Luxol Silk)/
	Interior	Nerolac Impression
3.	Admixures& Epoxy	FOSROC/ Aquomix/ BAL-
		ENDURA/ROFF/Dr.Fixit/CICO/SIKA/BASF
4.	Aluminium Composite Panel	Alpolic/ Aluco Bond/ Reynobond/ Euro bond/ Al-
		strong/Aludewr
5.	Aluminium Extrusions/ Sections	Hindalco/ Indalco/ Jindal/Indian Aluminium Co.
6.	P.T.M.T. Accessories	Prayag, PRAKASH, SHURYA/Supreme/Kingston
7.	Annealed Float Glass	Saint Gobain/ Modi Guard/ Hindustan
		Pilkington/TATA
8.	Centrifugally Cast Iron Pipe &	Neco/ RIF/ Kapilansh/ BIC/SKF/Electrosteel
	Fittings	
9.	Ceramic Tiles	Kajaria/ Somany/ Nitco/ Orient Bell/
		Johnson/Varmora/AGL/OASIS/Marbito
10.	Cement Concrete Chequrred	Raj-Tiles/ Bharat/ Rigid Tiles/Advance/Ultra
	tiles	Tiles/NITCO
11.	CP Bottle Trap	Parryware / Hindware/ Jaquar/ GRAFDOER by VMS
		BathwarePvt. Ltd./Prayag
12.	, , ,	Marc(oriental series)/ Parko/ Jaquar (Continental
	Stopcock/ Angle Valve/	series)/SPRING COLLECTION OF PRIMA
	Concealed Stop Cock & CP	/GEM/ESS/Plumber/ GRAFDOER by VMS
	fittings	BathwarePvt. Ltd. /L&K Metro/Vardhman/'Coral'
		series of parryware/'JOY' & 'VINTAGE' series of
	(Normal Range)	KEROVIT by Kajaria /Prayag
13.	CP Waste Coupling	Mark/ GRAFDOER by VMS BathwarePvt. Ltd./ Parko
		or equivalent /Prayag
14.	Curtain Carrier	Vista levlor or equivalent.
15.	Dash fastener/ Expansion	M/s DevAshish/HILTI/Fischer/Bosch/Wurth/Trixel.
	Bolt/Stone Cladding Clamp	
16.	Door closer/ floor springs	Dorma/Haffle/
		Falcon/Godrej/Dorset/Kich/Sandhu/Hardwyn
17.	Drapery Rod	Vista Levlor or equivalent.
18.	Flushing cistern (single/Dual	Sleek Dual flush PVC cistern of Hindware /
	Flush) as per IS: 7231	'Slimline'ofParryware /Prayag
19.	EPDM Gasket	AnandLescuyer or equivalent.

20.	Epoxy Primer & Paints	Berger/ Pidilite/ CICO/ BASF/
20.	Epoxy Filler & Failts	SIKA/Asian/Nerolac/ICI Kansai Akzo Nobel.
21.	Fibre Glass Shelf	Kamal/ Bath King or equivalent.
21.	Float/Clear/Frosted/Toughened	Modi Float/ Saint Gobain/ Asahi/AIS/Modiguard.
44.	/Refractive Glass	wour Ploat/ Saint Gobain/ Asain/Mis/ wourguard.
23.	Flush Doors / Shutters as per	Kutty flush door/ Anchor/ Century/
20.	IS: 2202	Kitlam/Archid/JAYNA/Ashiyana Brand by Evergreen
	10. 4404	Industries/ Bhimsaria Door/ Century/ Greenply
		/Archid/Kitply/Selected Products Company/Jain
		Doors pvt. ltd./Duro/Durian
24.	Flush Valve	Aquel/ Marc/ Parryware/ Jaquar /Prayag
25.	FRP Shutters/frame	Fibre Glass Engineers/ Raipur/ Aashoo Model or
		equivalent/JAYNA/ Selected Products Company.
26.	Galvanized/Stainless Steel	Shakti/ Arrow/ Hilti/ Fischer
	Anchor Fasteners	
27.		Tata/ Jindal/ Zenith/UNIK/AVR/Zoloto.
28.	GI Pipe	Tata/ Zenith/ Jindal (HISAR)/Prakash Surya.
29.	Glass Mosaic Tile	Bissazza/ Saon or equivalent.
30.	Gun Metal Gate Valve	Zoloto/ Leader/ SAINT
31.	False Ceiling system	Boral Gypsum / India Gypsum/ Laffarge/ St.
		Gobain(Gyproc)/ Armstrong/Hunter
		Dougals/Aearolite/Gridsquare/Interarch
32.	Hardner	Hard crete of Snowcem India/ MC Deritop F.H.
33.	Jet Assembly for EWC	Parryware/ Jaquar/ Grohe/ Kohler
34.	Laminate	Marino/ Greenlam/ Decolam/ Century/ Formica/
		Kitlam/Action TESA/Sunmica/Durian
35.	Low Level PVC Cistern Single	Sleek model Cistern of PVC of Hindware or 'Slimline'
	flush	model of Parryware, JINDAL / Prayag
36.	Melamine Polish	Melamine Gold of Asian Paint/Wudfinof
		pidilite/Timbertone of ICI Dullex/ Beegel.
37.	Metal False Ceiling	Nittobo / Armstrong / Trac / Durlum /
		Huntordonglas/Aerolite
38.	Mineral Fibre/Calcium silicate	Armstrong / Nitobo / Daiken / Hunter Douglas/
	Ceiling	Aerolite
39.	Modular SS Railing System	Metallica India / Stark steel Fabricator / D-line
		International Denmark / Mobel Hardware.
40.	M.S .Pipe (Railing)	Jindal / Prakash Surya/ Tata/ RINIL
41.	Marine Plywood / BWP Ply	Kitply / Duro / Century/ Greenlam/ Durian
42.	Non asbestos high impact	Everest or equivalent
	polypropelene reinforced	
	Cement sheet	
43.	Oil Bound Distemper/Dry	Asian (Professional Acrylic Distemper)/Maxilite of ICI
	Distemper	/ Bisan of Berger/Nerolac (Beauty Acrylic Distemper)
44.		Parryware / Hindware / KEROVIT' by Kajaria/ESSCO
	type) & fittings, accessories as	by Jaquar.
	per IS : 2556	
45.	PE-AL-PE Composite pipes	Jindal or equivalent.
46.	Plastic Connection Pipe	Parryware/Kamal Delux or equivalent.
47.	Plywood/Veneer	Archid/ Kitply/ Green ply/ Century/JAYNA/Green
		Ply/Merino/Duro/Durian

48.	Polyester Powder Coating	Nerolac/ Berger/ J&N
	Poly Sulphide Sealant	PIDISEALbyM/s Pidilite Industry/RDL941-
	roly sulpline scalar	TECHSEALChokseyChemicals/BASF/SIKA/Fosroc
50	Polymer Modified Cementitious	BalEndura/
00.	grout	PidiliteKeroKoal/Ultratech/Ardex/Ferrous Crete.
51.	Pre-laminated Particle Board IS :	Kitlam/ Tesa/ Archidply/Eco brand/Century/Bhutan
51.	12823 (Gr-I/ Type-II)	board/Action Tesa/Greenlam/Merino
52.	Primer (Cement Primer)	Decoprime WT of Asian/ white primer of ICI/BP white
54.	Filmer (Cement Filmer)	of Berger/ Nerolac
52	PVC Rain Water Pipe & Fitting	Finolex/ Classic of Kisan/ Kasta/ Supreme/AKG.
	PVC Kall water Fibe & Fitting PVC Shutter and frames	
54.	PVC Shutter and frames	Rajshri/ Sintex/Polyline/Duroplast/Jain wood Industries.
FF	DVC Tiles	
	PVC Tiles	Arm Strong/ LG or equivalent.
56.	Screws	GKW / Nettle Fold or equivalent.
	Silicon Sealant	G.E./ DOW Corning/Waker/BASF/Pidilite/ROFF
58.	Solid Plastic Seat Cover for EWC	EWC standard seat cover white of
50		Parryware/Hindware/'KEROVIT' by Kajaria
	Stainless Steel	Jindal Stainless Steel/ Salem Steel
	Stainless Steel Screws	Kundan/ Arrow or equivalent.
61.	Stainless steel Sink with or	Nirali/Hindware/Frankee/Cobra/AMC/
	without Draining board.	GRAFDOER by VMS BathwarePvt.
60		Ltd./Parryware/Neelkanth/Nirali
62.	Structural Silicon Sealant	Dow Corning/ Wacker/ GE/ Du-pont
63.	Structural steel	TATA/ SAIL/ RINL/TISCO/JSW Steel ltd./Jindal
		steel & Power ltd.
	Super plasticizer	MC Baucheme/ Sika/ Fosroc
65.	Synthetic Enamel Paints	Gloss Synthetic Enamel of ICI(Dulux)/Asian (Apcolite
		Premium gloss)/Berger (Luxol Hi Gloss)/ Synthetic Hi
		Gloss of Nerolac
66.	Terrazzo tiles /Mosaic Tiles	Raj-Tiles/ Bharat/ Rigid Tiles/NIC/A-1/GTC
67.	Cement Concrete Paver Block	Rigid Tiles/ Raj-Tiles/Advance
68.	&Kerb stone	Spectrum / Ultratech / Heritege hy Delvelite coeting
00.	Textured Exterior wall paint	Spectrum/ Ultratech / Heritage by Bakelite coating
60	Torreal Dipg/Torreal Do 1/Torreal	and paints/Asian paint/Berger/Nerolac/Luxture.
69.	Towel Ring/Towel Rod/Towel Rack	Kamal/ Marc or equivalent /Prayag
70.	Pre-Painted/powder coated CRC	M/s classic engineers and fabricators/ M/s JK
10.	windows	Enterprises Jaipur/ Nclalltek&seccolor ltd.
		Hydrabad/ ultimate safety metals.
71.	Veneer	Archid/ SUN/ Durian/ Ventura/ NLDK
71.	Virtuosos China Wash Basin	Hindware / Parryware / KEROVIT' by
14.	Oval	Kajaria/CERA/Jaguar/ESSCO by Jaquar /Prayag
73.	Vitreous China Floor moulded	Parryware / Hindware / KEROVIT' by Kajaria/
	European with Cistern Complete	CERA/Jaguar/ ESSCO by Jaquar /Prayag
74.	Vitreous China Floor Mounted	Parryware / Hindware / KEROVIT' by Kajaria/
	European W.C. without cistern	CERA/Jaguar/ ESSCO by Jaquar/Prayag
75.	Vitreous China Half stall Urinal	Model No. 6002 Urinal flat back large of Hindware or
10.		magnum of Parryware/ ESSCO by Jaquar/Prayag
76.	Vitreous China laboratory Sink	Hindware / Parryware / KEROVIT' by Kajaria/
70.	vincous cinna iaboratory Sillk	CERA/Jaguar/ ESSCO by Jaquar/Prayag
		Chivijuaguai/ 10000 by Jaquai/Flayag

77	Vitreous China Low Level	Hindware / Parryware / KEROVIT' by Kajaria/
77.	Cistern for European W.C.	CERA/Jaguar/ ESSCO by Jaquar/Prayag
78.	Vitreous China Pedestal for	Pedstal of Parryware / Hindware or equivalent/
70.	Wash Basin	CERA/Jaguar/ ESSCO by Jaquar/Prayag
79.	Vitreous China Wall Mounted	Parryware / Hindware / KEROVIT' by Kajaria/
19.	W.C. with vitreous Cistern	CERA/Jaguar/ ESSCO by Jaquar/Prayag
		CERA/Jaguar/ ESSCO by Jaquar/Frayag
80.	(component) Vitreous China Wall Mounted	Parryware / Hindware / KEROVIT' by Kajaria/
80.	W.C. without Cistern.	CERA/Jaguar/ ESSCO by Jaquar/Prayag
81.	Vitreous China Wash Basin	Hindware / Parryware / KEROVIT' by Kajaria/
01.	Rectangular without Pedestal	CERA/Jaguar/ ESSCO by Jaquar/Prayag
82.		Marbogranit/ Euro/ Somany/ diamond of Naveen
04.	Vitrified /Porcelain Tile	/Granamite of Bell /OASIS/ceramic/ Granito/
		Kajaria/ M/s Restile//Rak/ Johnson/Nitco/ Varmora/AGL/Marbito.
83.	Waste Pipe	Kamal with brass checknut/Viking
84.	-	Pidiproof Ltd./CICO/ Super plast by M/s Structural
04.		water proofing/ Impermo/FOSROC/Dr.Fixit (Pidilite
		Industries))/BASF/ROFF/SIKA/ArdexEndura
		(BalEndura).
85.	White Cement	JK White/ Birla White.
86.	CPVC Pipes as per IS: 15778	AKG/Ashirvad/PRIME FLOW OF KRISHI
80.	er ve ripes as per 15. 15776	POLYMERS/Supreme/KSR by Kisan
		irrigation/Flowguard plus by finolex/Prince /Prayag
87.	Teak wood/hard wood wire mesh	A-1 Teak product Indore or equivalent.
07.	& panel doors	A-1 Teak product indore of equivalent.
88.	Reinforcement steel	Tata/Sail/RINL/Jindal/Jindal steel & power ltd.
	Block Boards as per IS: 1659	JAYNA/Century/Greenply/Archid/Kitply or
05.	Bieen Bearde as per los rees	equivalent.
90.	Brass bib cocks/stop cock	Marc/Parko/Jaquar/SPRING COLLECTION OF
		PRIMA as per IS : 781 or equivalent/Prayag
91.	Brass ball cocks (Float valve)	Marc/Parko/Jaquar /SPRING COLLECTION OF
	,	PRIMA as per IS:1703 or equivalent/Prayag
92.	Water meter	SPRING COLLECTION OF PRIMA as per IS: 779 or
		equivalent.
93.	HDPE Pipes as per IS:4984	KRISHNA plast pipes/KSR by Kisan
	1 1	irrigation/Supreme/Reliance/Jain
94.	uPVC Pipes as per IS: 4985	KRISHNA plast pipes/AKG/ KSR by Kisan
	_	irrigation/Supreme/Astral/Prince/Ashirwad/Prayag
95.	uPVC Screen and casing pipes	KRISHNA plast pipes/KSR by Kisan
	for bore well/tube well as per IS	irrigation/Supreme/Prayag
	: 12818	
96.	uPVC-SWR Pipes SN 8 as per IS:	KRISHNA plast pipes/KSR by Kisan
	13592	irrigation/Finolex/AKG/Supreme/Prince/Ashirwad/
		Astral/Prayag
1		Tional Tuyug
97.	Wooden Shutter with frame	Siesto Brand by Bramsaria doors or equivalent.
97. 98.	Wooden Shutter with frame uPVC Windows/Doors	
		Siesto Brand by Bramsaria doors or equivalent.
		Siesto Brand by Bramsaria doors or equivalent. SIESTO Brand by Bhimsaria

		Lakshmi, GujratAmbuja Cement and Cement
		Corporation of India.
100	Communicated CI Shoots	-
	Corrugated GI Sheets	Tata, Essar , Sail JSW, Bhusan
	Colour coated profile sheets	Tata (Ezydeck)/Lloyd Superdeck/JSW/Jindal
102	Float Glass Profile Sheet TATA	Tata, Modiguard, Saint Gobain
	(transparent)	
103	Aluminium doors & window	Jyoti , Argent, Everest/Kilong/Alualpha/classic/Ebco
	fittings (Heavy duty)	
	Steel/Wood primer / paint	ICI delux, nerolac, berger, asian
	Bitumen 85/25 Emulsion (MS)	HPCI, IOCL,BPCL
106	PVC water storage tanks	Sintex, water well, Siltank, Polywell/Plasto/
		'SILTANK' by Supreme
107	Bitumen VG-30, VG-10	As per particular specification of item from IOCL,
		BPCL, HPCL.
108	Rigid Phenolic foam for cold and	Phenotherm manufactured by Bakelite Hylam ltd
	hot insulation as per IS: 13204	
109	Surface Texture Finishes	Heritage manufactured by Bakelite Coatings & paints
		ltd. or equivalent
110	FRP Chhajjas	Selected Products Company or equivalent.
111	FRP Porta cabin	Selected Products Company or equivalent.
112	G.I. Wire-mesh/Netting	Selected Products Company or equivalent.
	Wall Putty (White Cement based)	Buildwell (Walplast Products Pvt. Ltd.)/Birla wall
	,	care/JK white/Berger/Asian paints/ferrous Crete
114	AAC block	'Ecorex' manufactured by EcorexBuildtechpvt. Ltd. or
		equivalent.
115	UPVC Agriculture/Pressure	AKG Extrusion Pvt Ltd. or equivalent /Prayag
	pipes and fittings	
116	UPVC underground drainage &	KSR by Kisan
	sewerage pipes SN 8 as per	irrigation/Finolex/AKG/Supreme/Prayag
	IS:15328	
117	Fabrication of aluminium&	Skyler World or equivalent.
	UPVC doors, windows, Facades	
	including ACP and glazing work	
118	Fabrication of aluminium	KANHA ALU AND FAB PVT. LTD., Raipur or
	structural glazing and	equivalent.
	aluminium doors & windows.	
119	Processing and fabrication of	Wadhwa Glass Works (P) Ltd., Raipur or equivalent.
	glass (toughened, DGU and	
	lamination	
120	Glass reinforced Gypsum (GRG)	'Diamond' manufactured by Diamond International
120	false ceiling	Inexpvt. Ltd/Gyproc by Saint Gobain.
121	Wooden shutter with frame	'Bhimsaria' or equivalent
	PPR-C pipes as per IS: 15801	KSR brand/Supreme/Prayag
-	PVC fittings as per IS: 10124	KSR brand or equivalent/Prayag
140	and IS: 7834	hore stand of equivalent/ i rayag
104	PVC underground draingae pipes	Supreme or equivalent/Prayag
147	(structured wall type) as per IS:	Supreme of equivalent/11ayag
	16098	
105	PVC septic tanks	'Safegard' by Supreme or equivalent
	PVC underground water tanks	'Amrutam' by Supreme or equivalent
120	i ve unuerground water tanks	minutani by supreme of equivalent

127	PVC readymade toilet blocks	'Cleanage' by Supreme or equivalent
	PVC chambers & Manholes	Supreme or equivalent
	Pre-Painted/powder coated CRC	M/s classic engineers and fabricators/ M/s JK
129	windows	Enterprises Jaipur/ Nclalltek&seccolor ltd.
	windows	,
120		Hydrabad/ ultimate safety metals.
130	White cement based polymer	Ultratech/Dr.Fixit/ Sika/ Fosroc
101	modified self curringmortor	Formana anata / Commana (Filita OO) / Ultrata ala
	Gypsum plaster	Ferrous crete/ Gyproc (Elite-90)/ Ultratech
132	Tile Adhesive	Ferrous Crete / Ardex/ Endure (Gold Star)/ Pidilite
100	T , 1 , M	(Fevimatex)/ Weabr (Saint Gobain)
133	Integral water proofing	FOSROC/ Conplast 421/Dr.fixit : LW+/ Sika :
	compound with cement (for	sikacim/Asian Paints: Smart care vitalia& equivalent
101	plaster & mortar)	product of BASF/CICO/ArdexEndura
134	Water proofing for	Fosroc: Brush Bond/CICO:Tapecrete/Dr.fixti : Pidilite
	bathroom/toilet/balcony & other	2k/Sika: Nito Bond/Asian Paints: Damp Block 2k &
	wet areas.	Equivalent Product of BASF/Ardex endure
135	Crystalline water proofing	Fosroc : Fosroc crystalline/Dr.Fixit: Dr.fixit
	compound.	crystalline/Sika: Sika Crystalline/Asian
		Paints:Crystalline Quart & Equivalent Product of
		BASF/CICO/ArdexEndura
	Polycarbonate sheet	GE Plastic/Lexan/MG Polyplast
137	Fire rated doors	Signum fire protection/Shakti
		Metdoor/NAVAIR/Sukri/Promat International
138	Stainless steel railing	Jindal/Dorma/Kich/GEZE/Godrej/Hardwyn
	Accessories	
139	Stainless steel door & windows	Jindal/Dorma/Kich/Dorset/Godrej/Ozone
	fittings	
140	Acrylic Distemper 1st quality	Asian Paints (Tractor Aqua Lock Paint)/ Berger:
	(washable/Readymix/Low VOC)	commando or equivalent paints of Nerolac or ICI-
		Dulux.
141	Plastic emulsion plaint	Asian paint: (Apcolite Heavy Duty Premium Emulsion
		paint)/ Nerolac :Impressio/Berger:Easy clean/ICI-
		Dulax:Velvet touch
142	Acrylic Smooth Exterior Paint	Asian Paint : (Apex/ Professional Premium Exterior
		Emulsion/ Nerolac: XL/Berger: Weather coat/ICI-
		Dulux: Weather Shieled
143	Premium Acrylic Smooth	Asian paint: Apex Ultima/Nerolac: XL Total/Berger:
	Exterior Paint with Silicon	Weather coat all guard/ICI dulux: Weather Shield
	Additive	max
144	Fire paint	Asian paints/Akzo Nobel Coatings India ltd./
		PROMAT/Jotun
145	D.I. Pipes & fittings	Electrosteel/Jindal/Tata
		Ductura/Kapilansh/Kesorom
146	C.I. manhole covers, frames & CI	Neco/Raj iron Foundary Agra/BIC/SKF/Kapilansh
	Gratings	
147	SFRC manhole cover & Grating	K.K./Jain Pragati
148	C.P. Brass fittings (Superior	Jaquar/Grohe/Roca/Prayag
	Range)	
149	Sanitary ware fittings &	Kohler/Roca/Hindware/Parryware/Prayag
	Accessories (Superior range)	
	(	

150	Mirror glass	Atul/Modi Guard/Golden Fish
151	Extruded Polystyrene Insulation	Dow Corning/Supreme/Taxes/Analco
	Board	
152	Heat Resistant Tiles	Swastik/Thermatek
153	Floor Hardener	Ironite/Ferrok/Hardonate
154	Modular Expansion Joint	Herculus/Sanfield India Ltd. Vexcolt
155	Glass Wool	Dow Coring/ U.P. Twinga/Isover
156	UPVC Doors and window	Rotto/Dorset/Kinlong
	hardware	
157	AAC Block adhesive	Ecorex/Ultratech/ArdexEndura/Ferrous Crete
158	Ready Mix Plaster	Ultratech/Ferrous Crete/Saint Gobain
159	Post tension slab	Ultracon technology limited/Tech-9/CRUX
160	Acoustical Wall paneling	Hush or equivalent to be decided by Engineer-in-
		charge.
161	Sports Vinyl Flooring	Ebaco or equivalent to be decided by Engineer-in-
		Charge

### APPROVED MATERIALS LIST (ELECTRICAL)

- 1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
- 2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
- 3. Whenever the specified brand of material is not available then, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

S1.	Item	
No.	Item	Acceptable Makes
110.	PVC insulated Copper wire /	KEI / HAVELLS / RR Kabel / Polycab / Finolex/
	Telephone wire	Anchor/ (All with ISI Marked)
2	MCCB / Switch Gear with	L&T/Seimens/Legrand / Schneider/Hager/ABB/
4	Thermomagnetic releases	GE/C&S Electric
	_	
3	MCCB with Variable	L & T (D-Sine) , ABB (ISO Max), Siemens,
	microprocessors based realeases	Schneider (NS Compact), GE (Recold Plus),
	(o/c, s/c, e/f)	Legrand (DPX)
4	MCB / MCB Prewired DB /	Legrand / L&T / Hager / Seimens / Schneider/
	RCCB/ Industrial Socket not	Havells/ ABB/HPL
	less than 10 K.	
5	Steel Conduit.	BEC / AKG / MK / Rama / Finolex
6	PVC Conduit	BEC,AKG, MK, Anchor, Finolex, Steel Craft,
		Saraswati, Swastik, Polycab
7	Casing Caping	Saraswati, Polycab, Precision, Astral
8	Call Bell / Buzzer / Ceiling rose	Anchor / Vinay Clair / Polo Rider / North West.
	/ Electronic Regulator.	
9	Brass Batten / Angle Holder.	Kinjal / Antex / Emperor.
10	Modular Switch / Socket /	Crabtree (VERONA), Anchor (Vision), L&T(Entice),
	Blanking Plate / PVC Box / Metal	MK (Citric), Legrand (Myrius), Schneider (Opale).
	(GI)Switch Box (the gauge of GI	
	Box shall not less than 16	
	SWG/1.2mm, depth≥60mm & of	
	the same make that of Switch)	
	Front Plates, Telephone, T.V.	
	Outlets Socket / Fan Regulator.	
11	Lamp for (light fittings)	Philips / Osram/ GE/ Bajaj/ Wipro/Crompton.
12	XLPE insulated PVC sheathed	Finolex/ Cable Corporation of India / R.R.
	1.1 KV grade Al. conductor	Kabels/ Universal Cable/Havells/KEI/ Polycab.
	armoured UG cable.	
13	Galvanize Octagonal Street light	Bajaj/ Transrail/ Valmont/Aster.
	pole/ High Mast & galvonised	
	bracket.	
14	HRC Protection Fuses/ Fuse	Siemens/ L&T/ Schneider /ABB
	Fittings.	
15	Selector Switches/ Indicating	AE/ Enercon/ L&T/ Neptune/ Conserve/
	Lamps (LED type)	Secure/ Keycee/ Vaishnav

16	Digital Ammeter/ Voltmeter	Conserve/ Secure/Enercon/AE/ MECO/
		Universal/ Rishab/ Yokins
17	Current. Transformer	L&T/ A.E./ Kappa/ IMP/ GE or equivalent
18	LUGS, Thimble, Cable Glands	Dowels/ Multi/ COMET/ Hex/ Jhonson /
		Gripwell/Comex/Comed
19	Timer	L&T/ Siemens/ Schinder/ Hager/ Legrand
20	Modular Blanking Plate	Clipsal, Crabtree, MK, Anchor, Legrand, L&T,
		ROMA, Siemens Northwest
21	G.I. Pipe	Jindal/ Tata/ Prakash/Surya
21	Power contactor	L&T / Siemens / Schinder/Legrand /ABB
22	Fluorescent Tube Fittings	Surya, Keslec, Trilux, Bajaj, Osram, GE , Wipro,
		Crompton Philips
23	Tap-off Box (Plug in Type), End	C&S Electric & Switchgear, L & T, ABB, Siemens,
	Feed Unit	Schneider, Tricolite
24	LT Panels / Feeder Pillars /	L & T, ABB, Siemens, Schneider, Tricolite, Adlec,
	Floor Panels for upto 400A i/c	CRS, Sudhir, Jakson, Advance Panel (Narela),
	switchgear	Adhunik, Havells or equivalent as approved by
		Engineer-in-charge.
25	МРСВ	L&T, ABB, Siemens, Schneider
26	LED fittings	Havells/Wipro/CGL/Philips/Bajaj/Osram
27	LED Make	Nichia / citizen/ Lumileds / APT/
		Electronics/Cree/Osram /Bridgelux.
28	Static voltage stabilizer	Reputed make as approved by Engineer-in-charge
29	Loudspeaker, Amplifier, Volume	JBL, BOSE, BOSCH, Electro- Voice, Sennheiser, D&B audiotechnik, Meyer Sound
	controller	
30	Ceiling Fan	Havells/Bajaj/Usha/Crompton

# **APPROVED MATERIALS LIST**

# (MANUAL FIRE ALARM SYSTEM/ WET RISER SYSTEM)

- 1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
- 2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
- 3. Whenever the specified brand of material is not available then, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.
- 4. If any makes stated above does not comply with the technical specifications given in the tender then such a make shall not be allowed.

SNo	Details of Equipment / materials	Make
1	Fire alarm Zonal Panel, Main	Agni Instruments Engineers India Pvt ltd / Safeway
	Control Panel , sounder MCB,	Security System / Electroquip / Steel age Industries
	Talkback unit/ Response	(Minmax) (Honeywell)/ Edward/ / Notifier
	Indicator/Detector	
		Notifier/ Johnson control/ Honeywell/ Siemens/ Bosch/ASES
		(Agni Suraksha)
2	Amplifier/Microphone/Hooter	Ahuja/Philips/ Agni Instruments Engineers / Safe
		way security System / Agni suraksha / Notifier
3	CO2/ABC fire extinguisher	Minimax/Ceasefire/Kanex(All with ISI marked)
4	Smoke detectors	Apollo series 65 / system sensor
1	Terrace Monoblock pump set	Kirloskar model – KDS- or similar model of Mather
		& Platt / Grandfos/Wilo/Jyoti.
2	MS Pipe / GI Pipe	Tata / Jindal (Hissar)/ SAIL (all with ISI marked)
3	CI Butterfly valve.	Audco / Advance / Kirloskar / SANT./KARTAR
		/Zoloto
4	CI Non return valve	Kirloskar / Kalpna/ Indian Valve company /
		SANT./KARTAR/ Zoloto
5	Landing valves/ Hydrant	Newage / Minimex / Padmini / Getech/Omex.
	valves	
6	Gun metal branch pipe	Minimax / Newage / Padmini / Getech/Omex.
7	RRL Hose pipe	Newage / Minimex / Padmini / CRC.
8	Hose Cabinet	Minimax / Newage / Padmini / CRC/Getech.
9	FBC	Minimax / Newage / Padmini / CRC/Getech.
10	First Aid hose reel.	Jyoti / CRC/ Padmini / Maruti.
11	Hose reel drum	Minimax / Newage / Padmini / Getech.
12	Gun metal valves	Sant / Leader / Kirloskar / Zoloto.
13	Pressure gauge	Feibig / H.Guru / indfos.
14	Pressure Switch	Danfoss / Ranutrol / H.Guru.
15	Electrical panel	Any CPRI approved manufacturer.
16	MCCB/MCBs	L&T/ Legrand / Siemens/ Schneider.
17	Starter	L&T / Siemens / ABB/ C & S.

18	Digital Voltmeter / Ammeter	AE/L&T.
19	Selector Switch	Kaycee / L&T / AE.
20	Indicating lamp	L&T / Siemens / BCH / Kaycee.
21	CTs	AE/L&T.
22	Sprinkler/flexible connection	Lifeguard/exflame/safefire/Tyco/Aquamist/Newage
	for sprinkler	/spray safe/HD
23	Installation valve (ISI marked)	Lifeguard/ spray safe/HD/ Tyco
24	Branch pipe, nozzle and	Fireshield/Lifeguard/Swastik/Shootfire/Safefire/Ty
	couplings	co/Newage/Minimax/Safex
25	Suction/Pot/Y-strainer	VTM/Anergy/Emerald/Sant/Leader

# APPROVED MATERIALS LIST (AC & R)

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.

2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.

3. Whenever the specified brand of material is not available then, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

S.no.	Item	Acceptable Makes/ Manufactures			
1	Air conditioner	DIAKIN / HITACHI / MITSUBISHI / O General			
		/BLUE STAR /CARRIER / TOSHIBA/ VOLTAS/			
		LLOYD/ GODREJ/ LG			
2	INSULATION:-				
а	FIBREGLASS	FGP / UP TWIGA / KHIMCO			
b	EXPANDED POLYSTYRENE	BEARDSELL / COOLINE			
С	EXPANDED POLYETHYLENE	NIKIFOAM / PROFEEL /Supreme/EQVT			
d	NITRILE FOAM	AEROFLEX / Supreme/ ARMAFLEX			
		/Totaline/Thermo flex			
3	GRILLES / DIFFUSERS	COSMOS / DYNACRAFT/ CARYAIRE/			
4	PRE-FILTERS	KIRLOSKAR / DYNA / KLENZAIDS / AIRTECH			
5	Power and control CABLES	KEI/Finolex/RR Kabel/Havells/polycab			
6	Drain Piping	SUPREME / PRINCE /			
		Apollo/Dutron/Ashirvad/Finolex/Astral			
7	Ventilation/Exhaust fans	KRUGER / COMEFRI /NICOTRA /Usha/			
		Crompton/ Havells/ GE/ Bajaj			
8	Copper piping	MANDEV/RAJCO/MEHTA/Totaline/Godrej			
9	PVC insulated Copper wire	Havells / RR Kabel / Polycab / Finolex/ Anchor/			
	(FRLS), Cables / Telephone	L&T (All with ISI Marked)			
	wire				
10	Circuit breakers/MCB / MCB	Legrand / L&T / Hager / Seimens / Schneider/			
	DB's / RCCB	MDS/ GE/ Hager/ ABB			
11	Industrial Socket	MDS/ HAVELLS/ Hager/ ABB			
12	PVC Conduit	AKG/ MK/ Anchor/ Finolex/ Steel Craft/			
		Saraswati/ Swastik			
13	Casing Caping	Saraswati/ Polycab/ AKG			
14	LUGS, Thimble, Cable Glands	Dowels/ Commet/ Hex/ Jhonson / Gripwell/			
		Comex/Comed			
15	Duct sheet metal	Sail/Jindal/Tata/Hindalco/JSW			
16	AHUs of all types	VOLTAS/ TRANE/ CARRIER/ ZECO/ BLUE STAR/			
		CARRYAIR/ EDGE TECH/ WAVES			

## **PROFORMA OF SCHEDULES**

## SCHEDULE 'A'

Schedule of quantities (as per PWD-3)

## SCHEDULE 'D'

Extra schedule for specific requirements/ : document for the work, if any.

## SCHEDULE 'E'

Reference to General Condition of Contract

## Name of work

Estimated Cost of work

(i) Earnest money

(ii) Performance Guarantee

(iii) Security Deposit

## SCHEDULE 'F'

## **GENERAL RULES & DIRECTIONS:**

Officer inviting tender

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.

# Definitions: 2(vi) Engineer-in-Charge

# 2(viii) Accepting Authority

2(x) Percentage on cost of materials and labour to cover all overheads and profits

(Attached in e-procurement site)

Nil

:

- : CPWD GCC-2023 (Construction Works) modified and amendment up to the last date of submission of tender.
- "Supply, Installation, Testing and Commissioning of Air conditioning System with associated Electrical work at Dome No.1&3 of AIIMS Raipur."
- ₹ 1,51,51,920.00/-
- **₹ 3,10,000.00** (To be returned after receiving of Performance Guarantee)
- 5% of tendered value.
- : 2.5% of tendered value.
- : Superintending Engineer, AIIMS Raipur on behalf of Executive Director AIIMS Raipur.
- : See below
- : Superintending Engineer, AIIMS Raipur
- : Superintending Engineer, AIIMS Raipur (C.G)
- : 15%

2(x)(b) Standard Schedule of Rates	: As per DSR (E&M) 2022 and Market Rate
2(xi) Department	: Engineering Department Project Cell, AIIMS Raipur.
9(ii) Standard CPWD contract Form	: <u>GCC (Construction Works) 2023</u> & CPWD Form 7 <del>/8</del> as modified & corrected up to last date of receipt of Bid/tender.
CLAUSE 1	
<ul> <li>(i) Time allowed for submission of Performance Guarantee, programme chart</li> <li>(Time and progress) and applicable labour Licenses, registration with EPFO,</li> <li>ESIC and BOCW welfare board or proof of applying Thereof from the date of issue of letter of acceptance</li> </ul>	: 07 Days
<ul> <li>(ii) Maximum allowable extension with late fee</li> <li>@ 0.1% per day of Performance Guarantee</li> <li>amount beyond the period Provided in (i) above</li> </ul>	: 03 Days
CLAUSE 2	
Authority for fixing compensation under clause 2	2 : Superintending Engineer/ Executive Director, AIIMS
CLAUSE 2A	
Applicable clause 2/ Clause 2A	: <u>CLAUSE 2</u>
CLAUSE 5	
Number of days from the date of issue of letter o acceptance for reckoning date of start Mile stone(s) as per table given below:-	f : 10 Days
Sl Description of Milestone (Physical)	Time allowed in days (from date of held in case ofAmount to be with- held in case of

		Time allowed in	Amount to be with-
Sl	Description of Milestone (Physical)	days (from date of	held in case of
No		start)	non-achievement
			of
1	<		
2	NIL		
3			
4			$\rightarrow$

:

Time allowed for execution of work -04 months.

# Authority to decide:

(i) Extension of time

Superintending Engineer/Executive Director, AIIMS Raipur

#### Rescheduling of mile stones <del>(ii)</del>

(iii) Shifting of date of start in case of : delay in handing over of site

Superintending Engineer/Executive Director, **AIIMS Raipur** Superintending Engineer/Executive Director, AIIMS Raipur

# **PROFORMA OF SCHEDULES CLAUSE 5** Schedule of handing over of site

	-		
Part	Portion of Site	Description	Time Period for handing
			over reckoned from date
			of issue of letter of Intent.
Part A	Portion without any	All works	10 days
	hindrance		
Part B	Portions with	NA	NA
	encumbrances		
Part C	Portions dependent	NA	NA
	on work of other		
	agencies		

:

#### -Cl

CLAUSE 11

Clause 5		
Applicable clause 5/ Clause 5A	:	<u>Clause 5</u>
Clause 6: Computerised Measure Book (CM	B)/ Electronic	e Measure Book (EMB)
Mode of Measurement	:	СМВ
CLAUSE 7		
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.		Rs. 20 Lakh
CLAUSE 7 A		
Whether clause 7A shall be applicable	:	YES
CLAUSE 10A		As required by Engineer-in- Charge
<b>CLAUSE 10B (II)</b> Whether Clause 10 B (ii) shall be applicable	:	Not Applicable
<b>CLAUSE 10C</b> Component of labour expressed as percent of value of work		Not Applicable
CLAUSE 10CC	:	Not Applicable

Specifications to be followed for execution of work

: CPWD General Specifications for Heating, Ventilation & Air-Conditioning (HVAC) 2017, for Electrical Works, Part-I (Internal-2023), Part-II (External-2023), Part-IV (Sub Station- 2013), Part V (Wet Riser & Sprinkler Systems – 2020), Part VI (Fire Detection and Alarm System 2018) with upto date correction slips

# CLAUSE 12

Authority to decide deviation upto 1.5 times<br/>of tendered amountSuperintending<br/>Director, AIIMS RaipurEngineer/Executive12.2<br/>Deviation Limit beyond which clauses<br/>12.2 & 12.3 shall apply for building work:No limit

CLAUSE 16

Competent Authority for deciding reduced : Superintending Engineer/ Executive Director, allMS Raipur

# **CLAUSE 18**

List of mandatory machinery, tools & plants : As required by Engineer -in- Charge to be deployed by the contractor at site

**CLAUSE 19 C**... Engineer- in charge (Superintending Engineer) to decide penalty for each default

**CLAUSE 19 D**... Engineer- in charge (Superintending Engineer) to decide penalty for each default

 $\ensuremath{\text{CLAUSE}}$  19 G  $\dots$  Engineer- in charge (Superintending Engineer) to decide penalty for each default

CLAUSE 19 K ... Not Applicable

CLAUSE 19 L ... Applicable

# **CLAUSE 25**

# (i) Conciliator: TO BE DECIDED BY EXECUTIVE DIRECTOR, AIIMS Raipur

(ii) Arbitrator Appointing Authority: **TO BE DECIDED BY EXECUTIVE DIRECTOR**, <u>AIIMS</u> <u>**Raipur**</u>

(iii) Place of Arbitration: RAIPUR (C.G.) / BILASPUR (C.G.)

## CLAUSE 32

## : Applicable

Requirement of Technical Representative(s) and recovery Rate

S1.	Minimum	Discip	Designation	Minim	Nu	Rate at which recovery shall be	
no.	qualification	lin	(Principal	um	mbe	made from the contractor in the	
	of technical		technical /	Experi	r	event of not fulfilling provision	
	representative		Technical	ance		of clause 36 (i)	
			representative				
						Figure	Words

1	Gradute	Site	2 or 5	2 or 5	1	Rs. 15000/-	Rupees Fifteen
	Engineer or	Engin				per month	thousand only.
	Diploma	eer					
	Engineer						

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

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

**CLAUSE 38** 

Not Applicable

# **SCHEDULE OF QUANTITY**

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
1	Supply, Installation, Testing and Commisioning of Factory built ceiling Suspended, (R-410) Green refrigerant, Ductable AC suitable (Indoor units plus Outdoor units) for high static pressure, Cooling Coil Section with hydrophilic aluminium finned copper tube cooling coil, airprefilters, package insulated drain pan and drain connection. Each unit shall be provided with a factory assembled filter section containing washable air filters.Filters media and frame shall be rust proof and corrosion resistant. AC unit should be designed to work up to 50 degree centigrade, Capacity -22 TR , CFM-8800 with speed regulation.	8.00	Each	821185.26	6569482.08
2	Supply, Installation, Testing & Commissioning of 4TR Multi Split Type VRV/VRF Based split Air conditioners having Single outdoor with complete copper condenser coil, , Corrosion Resistant Black Fins, Power Supply 230 V ,1 Phase , 50 Hz. variable refrigerant flow /Variable regrigerant Volume air cooled outdoor units suitable for cooling having inverter type scroll compressor , microprocessor , top/Side discharge type condensing units , with R410 A/R32 /Green refrigerant, Vibration isolators etc. required size copper Pipes , Cable , Drain Pipe is in the scope of agency up to 5 Meter standard .Required Communication Cable between indoor units to Outdoor unit is in the scope of agency. The unit shall be filled with first charge of the refrigerant and ready for use as required.	6	EACH	108275.00	649650.00
3	Supply Installation, Testing & commissioning of following minimum capacity 1 way flow VRV/VRF Cassete type indoor ceiling mounted unit euippted with synthetic washable media prefilter,Fan section with low noise fan/Dynamic balanced blower ,multispeed motor ,Coil section with DX copper coil, Electronic Expansion Valve,Outdoor Cabinet ,Drain Pump, Grill,Necessry Supports, Vibration Isolation, Cord less remote Control etc. Suitable for opertaion on single phase 230+/- 10% ,50 Hz Ac Supply .required size copper Pipes with proper insulation , Cable , Drain Pipe is in the scope of agency up to 5 Meter standard for each indoor unit.				

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
3.1	1.5 TR	18	EACH	22929.00	412722.00
4	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
4.1	0.63 MM GI Ducting	500.00	SQMT	1124.97	562485.00
4.2	0.80 MM GI Ducting	100.00	SQMT	1306.80	130680.00
4.3	1.0 MM GI Ducting	60.00	SQMT	1732.12	103927.20
5	Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m <sup>3</sup> , with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.	50.00	SQMT	752.82	37641.00
6	Supplying and fixing of Nitrile Rubber 19 mm thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.	660.00	SQMT	801.73	529141.80
7	Supplying, fixing, testing, commissioning of supply air grill of powder coated aluminium with volume control dampers with anti smudge ring & removable core.	20.00	SQMT	9681.35	193627.00
8	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	20.00	SQMT	6284.10	125682.00
9	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	13.00	SQMT	7492.01	97396.13

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
10	Supplying, Installation, Testing and Commissioning including vaccumiazation and nitrogen testing of following nominal sizes of soft/hard drawn copper refrigeranr piping for AC unit , complete with fitting with suitable adjustable ring type hanger supports, joining/brazing including acessaries , insulated with XPLE Class O Tubular insulation /with classo cosedcell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below-				
10.1	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	70.00	Meter	260.51	18235.70
10.2	9.5mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	70.00	Meter	351.95	24636.50
10.3	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	120.00	Meter	495.50	59460.00
10.4	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	120.00	Meter	1178.14	141376.80
11	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge for Drainage.				
11.1	32 mm Dia	240.00	Meter	518.75	124500.00
11.2	25 mm Dia	50.00	Meter	401.55	20077.50
12	Supply and fixing of Fire Retardent Canvass Connections with vibration & isolation pad .	8.00	Each	3922.33	31378.64
13	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core	20.00	SQMT	12955.25	259105.00
14	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	20.00	SQMT	8635.06	172701.20

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
15	Supplying ,Fixing, testing and commisionning of fire dampers in supply air duct/main branch duct and return air path as and where required of sizes i/c control wiring ,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not external mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.				
15.1	Fire Damper	21.00	SQMT	11333.71	238007.91
15.2	Actuator	25.00	EACH	10577.71	264442.75
16	Supplying, fixing testing commissioning of air aluminium Jet Diffuser with Damper Complete as required.	50.00	EACH	10724.51	536225.50
17	Supplying and fixing of Heavy Duty Outdoor Stand for AC Unit (4 Ton) as per Direction of Engineer Incharge AIIMS Raipur.	6	Each	1690.00	10140.00
18	Supplying and fixing of MS of (40X40X5) mm stand for condensing (Outdoor) unit, Size - 1040 mm(L)*440mm(W)*300(H)} complete with epoxy painting as per direction of Engineer incharge.	16.00	Each	11156.84	178509.44
19	Supply and fixing of insulation work with 6 mm nitrile rubber on CPVC drain pipe properly as required.	95	Meter	64.00	6080.00
20	Supply and fixing of Sequential Timer with inbuilt auto on/off programming to run 2 Acs unit with fix time interval for 24x7 Working.	2	Each	2038.00	4076.00
21	Comprehensive Annual Maintenance of complete air condidioning system installed as above for 1st year after completion of DLP period. (Note: CAMC During DLP preiod shall be free from any cost)	1.00	Year	348741.00	348741.00
22	Comprehensive Annual Maintenance of complete air condidioning system installed as above for 2nd year after completion of DLP period.	1.00	Year	366178.00	366178.00
23	Supply & Fixing of Earthing cable 8 SWG (Copper) compete as necessary required.	170.00	Meter	319.39	54296.30

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
24	Supply and Drawing following size of FRLS PVC Insulated Copper Conductor Single core cable in the existing surface recessed steel PVC /Conduit,Fitting as required.				
24.1	3X4 Sqmm.	60	Meter	219.04	13142.40
25	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit & accessories as required.				
25.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	385.00	Meter	292.41	112577.85
25.2	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	216.00	Meter	466.79	100826.64
25.3	$4 \times 10$ sq. mm + $2 \times 6$ sq. mm earth wire	95.00	Meter	1068.62	101518.90
25.4	4 X 16 sq. mm $+ 2 X 6 $ sq. mm earth wire	560.00	Meter	1451.40	812784.00
25.5	4 X 25 sq.mm + 2 X 16 sq.mm earth wire	208.52	Meter	2396.00	499613.92
26	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
26.1	15/16 A switch	18	Each	165.87	2985.66
26.2	6 pin 15/16 A socket outlet	18	Each	209.47	3770.46
27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
27.1	3 Module (100mmX75mm)	18	Each	347.70	6258.60
28	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing VTPN DB/cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
28.1	100 A, 16 kA,TPMCCB	4	Each	4016.08	16064.32
28.2	250 A, 35 kA,TPMCCB	2	Each	14759.67	29519.34
29	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But				

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
	without MCB/RCCB/Isolator)				
29.1	4  way  (4+12),  Double door	2	Each	4349.96	8699.92
30	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer ) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
30.1	4  way  (4 + 12),  Double door	4	Each	7987.51	31950.04
31	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning & accessories etc. as required.				
31.1	Single pole	24	Each	272.20	6532.80
31.2	Triple pole	16	Each	1070.74	17131.84
32	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	8	Each	1243.00	9944.00
33	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	16	Each	1692.77	27084.32
34	Supplying, installation, testing & commisioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB (but without MCCB) complete etc. as required				
34.1	250A, Isc = $35 \text{ kA}$ for 1 second	2	Each	11309.26	22618.52
35	Supplying & installing following size of perforated pre-painted M.S. cable <b>trays</b> with perforation not more than 17.5%, in convenient sections, jointing with connector, suspended from the ceiling with the M.S. suspenders including bolts & nuts, painting suspenders etc				

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
	as required.				
35.1	150 mm width X 50 mm depth X 1.6 mm thickness	150	Meter	642.23	96334.50
36	Supplying & installing following size of perforated pre-painted M.S. cable trays <b>bends</b> with perforation not more than 17.5%, in convenient sections, jointing with connector, suspended from the ceiling with the M.S. suspenders including bolts & nuts, painting suspenders etc. as required.				
36.1	150 mm width X 50 mm depth X 1.6 mm thickness	8	Each	1082.44	8659.52
37	Providing & Fixing 25mm X 5mm G.I. strip on surface or in recess for connections etc. as required.	242	Meter	259.45	62786.90
38	Laying & Fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1kV grade of following size on cable tray as required				
38.1	Above 95sq.mm and upto 185 sq.mm (Clamped with 25/40x3mm MS flat clamp)	235	Meter	122.28	28735.80
39	Supplying & making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE Armoured cable aluminium conductor of 1.1kV grade as required				
39.1	3½ X 185 sq. mm (57mm)	4	Each	1056.92	4227.68
40	Supplying of cable having multi strand aluminium conductor XLPE insulated PVC sheathed and sleeved armoured and overall PVC sleeved 1.1kV grade power distribution cable conforming to relevant IS code and as per specification etc. as required.				
40.1	3.5 X185 sq.mm	242	Meter	1099.00	265958.00

SI. No.	Item Description	Quantity	Units	Estimated Rate in <mark>Rs. P</mark>	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
41 Total	Supplying, installation, testing and commissioning of M.V. cubical type totally enclosed dust and vermin proof IP-43 Main Distribution Boards suitable for use on 430 V 3 phase 4 wire 50 Hz AC supply, having compartmentalized construction for different incoming/outgoing MCCBs from Approved Make, and separate bus bar & cable alleys , fabricated from 1.6 mm thick CRCA sheet steel of uniform width complete with tinned copper bus bars , MV danger notice plate, Digital type ammeter with Ammeter selector switch , voltmeter with Voltmeter selector switch , tED indicating lamps, cast resin CT's Confirms to IEC 61439-2, Interconnection with suitable capacity copper strips / rods, connection of incoming and outgoing cables with thimbles , smoke/Siemens grey colour stove enamelled painted and having following incoming and outgoing switchgears, 2 earth bolt, removable cable gland plate with spare suitable hole, wall/floor mounted, lockable using hollow standard LT Panel lock key complete as per site required or as approved by Engineer In-charge. A. INCOMER 01 nos. 250amps 36kA TPNL MCCB from Approved Make Thermo-magnetic release type with rotary handle. 01 nos. Digital type single function with er to show amperage with phase selector switch 01 nos. Digital type single function ameter to show amperage with phase selector switch 03 Nos CTS 125/5 ratio 03 LED Indication Light with toggle switches B. OUTGOING 03 nos. 100A TPNL MCCB (25 KA) Thermomagnetic release type. 01 nos. 40A TPNL MCCB (25 KA) Thermomagnetic release type.	2	Each	295796.00	591592.00
Total					15151920.00