

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

OFFICE OF THE
SUPERINTENDING ENGINEER
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NOTICE INVITING e-TENDER

N.I.T. NO. 22/SE/AIIMS/RPR/2024-25 (2nd call)

NAME OF WORK: Up-gradation works at Gastroenterology

Department in AIIMS Raipur.

ESTIMATED COST : **Rs. 2,72,61,136.00**

EARNEST MONEY : **Rs. 5,46,000.00**

CONTRACT PERIOD : **09 months**

TYPE OF WORK : Maintenance

e-sign by S.S. Bose Superintending Engineer 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.

PREPARATION OF BIDS:

- 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	"Up-gradation works at Gastroenterology Department in AIIMS Raipur."		
(b)	Tender No.	22/SE/AIIMS/RPR/2024-25 (2 nd call)		
(c)	Contract Period	09 months		
(d)	Estimated Cost	Rs. 2,72,61,136.00		
(e)	Earnest Money Deposit (Mandatory to submit original EMD for participating in Bid and no need to submit hard copy of whole tender document)	Rs. 5,46,000.00 (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.		
(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 www.aiimsraipur.edu.inand CPPP site https://eprocure.gov.in/eprocure/app		
(i)	Last Date & Time of Submission	By 16-01-2025 UP TO 15:00 Hours through online.		
(j)	Date & Time for opening of Technical Bid	On 17-01-2025 at 15:30 Hours.		
(k)	Date & Time of Pre bid meeting	On 31-12-2024 at 15:00 Hours.		
(L)	Pre-bid meeting venue	Engineering Department, Project cell, Gate no. 1, AIIMS, Raipur		

- 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 www.aiimsraipur.edu.in_Or https://eprocure.gov.in/eprocure/app.

FORM-6

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

The Superintending Engineer , AIIMS, Raipur on behalf of 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 /M.E.S. /BSNL (Construction) /Railway /C.G. P.W.D/ Specialized agency for the following work(s):-

Sl. No.	Description	Details		
(a)	NIT No.	22/SE/AIIMS/RPR/2024-25 (2 nd call)		
(b)	Name of Work:	"Up gradation works of Gastroenterology Department at D block Ground Floor in AIIMS Rainur"		
(c)	Estimated Cost	Rs. 2,72,61,136.00		
(d)	Earnest Money Deposit (Mandatory to submit original EMD for participating in Bid and no need to submit hard copy of whole tender document)	Rs. 5,46,000.00 (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	09 months		
(f)	Last Date & Time of Submission	By 16-01-2025 UP TO 15:00 Hours through online.		
(g)	Date & Time for opening of Technical Bid	On 17-01-2025 at 15:30 Hours.		
(h)	Date & Time of Pre bid meeting	On 31-12-2024 at 15:00 Hours.		
(L)	Pre-bid meeting venue	Engineering Department, Project cell, Gate no. 1, AIIMS, Raipur		

- **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 http://eprocure.gov.in/eprocure/app 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. **Manual bid shall not be accepted in any circumstance**. 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 http://eprocure.gov.in/eprocure/app 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. Pre-Bid Conference: The purpose of the meeting will be to clarify the doubt of the intending tenderer, beside discussion on any additional suggestion proposed by the tenderer. If found necessary, a corrigendum to the tender documents would be issued to all the intending tenderers, and thereafter no further query/condition shall be entertained. AIIMS RAIPUR shall conduct pre-Bid meeting(s) at the time and venue mentioned in Notice Inviting Bid.
- 12. 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.
- **13.** 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.
- **14.** 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.
- 15. 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.

16. 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.
- 17. 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.
- **18.** The Tender paper/documents can be seen / downloaded from Official website & submitted through Online or Site.

- **19.** The competent authority on behalf of the 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.
- **20.** 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.
- **21.** 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.
- **22.** 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 Engineer and 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.
- **23.** The bid for the works shall remain open for acceptance for a period of **90 days** from the date of opening of bids.
- **24.** 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.
- **25.** 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.

26. 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.

27. Eligibility of Bidder

(a) Minimum Eligibility Criteria:

- (i) The Applicant should be registered contractors of appropriate list of CPWD /M.E.S. /BSNL (Construction) /Railway /C.G.P.W.D/ Specialized agency.
- (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 previous day of last day of submission of tenders.

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 Building Works/ up gradation work/Construction of Operation Theater or ICU.
- (iv) If the main agency as above has not experience of Air conditioning and/or MGPS works as per below mentioned criteria, they will associate specialized agency having requisite experience as below as per tender conditions.
 - a) Experience of having successfully completed work of Air conditioning 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 previous day of last day of submission of tenders.

Three similar* works each of value not less than Rs. 9,68,874.00.

OR

Two similar* works each of value not less than Rs. 14,53,310.00.

OR

One similar* work of value not less than Rs. 19,37,747.00.

- * "Similar Works" means Air conditioning Works.
- b) Experience of having successfully completed work of MGPS 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 previous day of last day of submission of tenders.

Three similar* works each of value not less than Rs. 34,77,073.00.

OR

Two similar* works each of value not less than Rs. 52,15,610.00.

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One similar* work of value not less than Rs. 69,54,146.00.

- * Similar Works means "supply, installation, testing and commissioning of MGPS work, which may also include comprehensive maintenance of MGPS installations." Comprehensive maintenance of MGPS installations standalone work is not covered in similar work.
- c) In case, the qualifying experience certificate is from Private sector/ Charitable Hospital for MGPS and/ or HVAC work related similar work, the firm/ vendor should submit the TDS certificate as a proof of having executed the said work.
- (v) If the main agency as per above para 27/a/i has not experience of works done as per AERB guideline, they will associate specialized agency having experience of work done as per AERB guideline.

(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

- 'N' = Number of years prescribed for completion of work for which bid has been invited.
- '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. The value of completed works shall be brought to current costing level by 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

(i) For the Contractors to whom any work(s) in AIIMS Raipur is awarded and in progress, prior to Opening of Financial Bid, a Monthly Performance Report for contractors will be prepared by the Engineer-in Charge to ascertain their performance to complete any

additional work in AIIMS Raipur within Stipulated Time of completion of work or Extended Time of completion of work (if any). Any adverse remark in the Monthly Performance Report for contractor shall result in rejection of Technical Bid of such contractor for this NIT. This criteria for Technical Eligibility of Bidder may be relaxed in the case of contractor whose performance has been found to be very high order with the approval of Director, AIIMS Raipur.

(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.
- **28.** In the bid documents the word / sentence shall be read as under :
 - a. President of India 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 / Superintending Engineer , AIIMS, Raipur.
 - c. CPWD AIIMS Raipur.
- 29. 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
2	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)
	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
9	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
9	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, which ever 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.
	Proof of Average Annual Financial Turnover on construction works should be at least
10	30% of the estimated cost put to tender during the immediate last three consecutive
	financial years (Proforma III)
11	Details of The Similar Works Completed In Last Seven Years (Performa-IV)
12	Details of ongoing/existing works (Proforma-VI)
13	Affidavit on non-judicial paper of Rs. 50/- duly attested by Notary/ Magistrate for PAST 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.
15	Consent Letter from Associate Agency (Form-A) and MoU (Form-B) If the main agency (Enlisted contractor) have not experience of similar works.

e-sign by S.S. Bose Superintending Engineer AIIMS, Raipur



LETTER OF TRANSMITTAL

From:	
То	
The Superintending Engineer , Project Cell, AIIMS, Raipur (C.G.)	
Subject: Submission of bids for the work of "Up-gradation works at Gastroenterology Department in AIIMS Raipur."	
Sir,	
Having examined the details given in the bid document for the above work, I/we hereby submit the relevant information.	
 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. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply. 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 Seal of bidder	:(s)

FORM FOR DETAILED INFORMATION BY BIDDER (Vendor Details)

ame of the Bidder	
rmanent Account No (PAN)	
rticulars of Bank Account	
Name of the Bank	
Account Number	
Name of the Branch	
Branch Code	
Address	
City Name	
Telephone No	
gal status of the bidder (attach	
_	
fining the legal status)	
An Individual	
A proprietary firm	
A firm in partnership	
A limited company or	
ST Registration Certificate No	
lid Email ID of the Bidder	
omplete Postal Address of the dder	
	Account Number Name of the Bank Account Number Name of the Branch Branch Code Address City Name Telephone No gal status of the bidder (attach bies of original document fining the legal status) An Individual A proprietary firm A limited company or reporation T Registration Certificate No lid Email ID of the Bidder Implete Postal Address of the

(Authorized Signature of the Bidder with Seal)

STRUCTURE & ORGANISATION

1.	(a) Name
	(b) Address of the bidder
2.	(a)Telephone no.
	(b) Telex no.
	(c) Fax no.
3.	(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

"Up-gradation works at Gastroenterology Department in 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 measurements 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

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
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	2021-22		
2	2022-23		
3	2023-24		

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

SI. No.	Description of The Work With Contract No./ Work Order No.	Department in which work is awarded	Date of award	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 submission of the Bid "(Name of the Work and NIT No."):	[Name of the Bidder with address], in
i) have not made any misleading or false representation in the f the qualification requirements;	forms, statements and attachments in proof of
ii) do not have records of poor performance such as abando contract, inordinate delays in completion, litigation history or final	
iii) have never been banned by any Central/State Govt. Enterprises or Autonomous Bodies of Central/State Govt.;	Departments/Public Sector Undertakings or
iv) have submitted all the supporting documents and furnishe format.; and	ed the relevant details as per the prescribed
v) have submitted all the information and the requisite documer fully responsible for the correctness of the information and document of the correctness of the information and document of the correctness of the information and document of the correctness of the information and the requisite document of the correctness of the information and the requisite document of the correctness of the information and the requisite document of the correctness of the information and document of the correctness of	
SEAL AND SIGNATURE OF THE BIDDER	
Note: Exceptions of the above, if any, shall be clearly evaluation/consideration if any.	mentioned with details by the bidder for

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

Name	of	work:	"Up-gradation	works	at	Gastroenterology	Department	in	AIIMS
Raipur	•"								

1. I / We hereby give my consent to asso executing the of work of	ciate with M/s, for					
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.						
	nically qualified Engineer / supervisor for the work as required for the work. I / We will artment as and when required.					
Date:						
Signature with date of Main Agence /Contractor	y Signature with date of Associate Specialized Agency					

Address:

Witness with address
 (From main contractor side)

Address:

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]

Enlistment Status

Valid Upto:

[Henceforth called the main contractor]

And

2 M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Henceforth, called Associated specialized Agency]

For the execution of Specialized Works: - "Up-gradation works at Gastroenterology Department in AIIMS Raipur."

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 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

This Integrity Agreement is made at	on this day of 2024
	BETWEEN
Executive Director, AIIMS Raipur throug	gh Superintending Engineer (C), AIIMS Raipur.
	(Name of Division)
AIIMS,	, (Hereinafter referred as the
(Address of Divis	ion)
'Principal / Owner', which expression	shall unless repugnant to the meaning or context hereof
include its successors and permitted as	ssigns)
	AND
(Name and Addre	ess of the Individual/firm/Company)
through	(hereinafter referred to as the
(Details of duly authorized s	ignatory)

Preamble

WHEREAS the Principal /Owner has floated the e-Tender (NIT No. 22/SE/AIIMS/RPR/2024-25 (2nd call) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for "Up-gradation works at Gastroenterology Department in AIIMS Raipur." Here in after referred to as the "Contract".

"Bidder/Contractor" and which expression shall unless repugnant to the meaning or context

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

hereof include its successors and permitted assigns)

- 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.
- d) The Bidder(s)/ Contractor(s) of foreign origin shall disclose the names and addresses of

agents / representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent 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 a 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

- 1. 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 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender 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 Subcontractors/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)

<u>ARTICLE 9 INDEPENDENT EXTERNAL MONITOR (IEM):</u>

Contractor signing IP shall not approach the courts while representing the matters to IEMs and he/she will await their decision in the matter. Other terms and conditions will be governed as per CVC Circular no. 04/06/23 dated 14.06.2023

Shri Arvind Kumar Arora (IEM) Independent External Monitor Email: arvindarora333@gmail.com Shri Vishwanath Giriraj (IEM) Independent External Monitor Email: vgiriraj@refdiffmail.com

WITNESSES	:
-----------	---

2.

1.	 (Signature,	name	and	address)

. (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: "Up-gradation works at Gastroenterology Department in 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 **Rs. 5,46,000.00** 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
ACCEP	PTANCE
The above tender (as modified vide letters ment behalf of the AIIMS Raipur for a sum of ₹.	tioned hereunder) is accepted by me for and on*
(Rupees*	
The letters referred to below shall form part of thi	s 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: "Up-gradation works at Gastroenterology Department in AIIMS Raipur."

- 1. 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 bye 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 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 Part-I (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 regd. 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.
- 41. The contractor will have to arrange the required Computer, Printer, telephone, furniture

etc. at his own cost pertaining to his job and he will take all the settings after the expiry of the agreement for which nothing extra shall be paid.

back only

C. TERMS AND CONDITIONS FOR AC&R WORK

- 1. The bidder Shall visit the site of installation & Commissioning of the Air conditioning machine 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 Defect liability period.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.

- 10. 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.
- 11. At the time of acceptance of the tender, agency shall furnish the details of workers along with contact details.
- 12. 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).
- 13. 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.
- 14. 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.
- 15. 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.
- 16. No accommodation for the labourers will be allowed within AIIMS Raipur.
- 17. 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.
- 18. Installation, testing and commissioning report as per default parameter and 72 hour testing report if required by the engineer-in-charge.
- 19. 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.
- 20. 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. OTHER TERMS AND CONDITIONS for MGPS works and other works

1. For Radiation proof hermitically sealed sliding door and Allied room

- i. During AERB inspection and Radiation Survey, if radiation leak is found across the doors and glass or margins of the glass, then replacement / modification of the same must be done by the supplier immediately without any additional charges.
- ii. Necessary certification of being Radiation X-ray resistant should be submitted from

- the supplier before installation.
- iii. Certification of the lead equivalence of the doors (being Radiation X-ray resistant) should be submitted for the maximum KV exposure of the installed C-Arm's Xray Tube.
- iv. For lead glass window area: Window frame must be clean, square and plumb with 1/8" maximum space for clearance around perimeter and allowance for appropriate seals, glazing tape or gaskets. Stops must be set snug but not too tight. Avoid pinching or unequal pressure points against X-Ray Lead Glass surfaces and edges.
- v. Contractor must be present during radiation survey (will be informed accordingly) and must modify the services according to the result of the survey if needed.
- 2. The MGPS firm shall execute complete work including submission of layout drawings and working drawings.
- 3. The contractor, shall carry out necessary modification in civil and electrical components, demolition and other works as may be required for complete installation and trouble-free functioning of the MGPSs system.
- 4. The contractor shall coordinate with fire-safety (Fire Alarm, Fire Fighting, Security) firm for installation of fire-safety sensor/instrument wherever required.
- 5. The contractor shall cooperate for installation and commissioning of other medical equipment (like integration equipment in OTs, ICUs, wards, monitors, etc.) in coordination with hospital authorities, respective firm/s and the department.
- 6. The MGPS firm shall successfully complete installation, testing and commissioning of all MGPSs along with all equipment included in the scope of MGPS work as per technical specifications.
- 7. The MGPS firm shall provide factory test certificates for the materials/equipment used for the installation of MEDICALGAS PIPE LINE SYSTEM (MGPS).
- 8. The MGPS firm shall supply complete set of manuals for all the systems and subsystems.
- 9. The MGPS firm shall arrange at his cost on-site training of consignee/user for a week or more as required by original equipment manufacturer (OEM), wherever required.
- 10. Final electrical safety test, system test, and calibration shall be done as per required standard for the equipment installed by authorized persons using calibrated test equipment, and declaration to this effect shall be submitted by the MGPS firm.
- 11. The contractor shall supply only new, unused material/goods and incorporate all recent improvements in design and materials in the work.
- 12. Warranty and CAMC for MGPS work
 - i. Comprehensively all the goods supplied under the contract shall be new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise in the contract.
 - ii. The firm further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.
 - iii. The agency has to provide comprehensive maintenance cum warranty during DLP period of 01 year for complete MGPS installations mentioned under <u>subhead-MGPS</u> and related work of BoQ which include all spares, labour, all consumables, Filters

and preventive maintenance from the date of completion of the satisfactory installation and acceptance.

- 13. Specialized item should be purchased from OEM/ OEM authorized agency and agency has to submit a copy of authorization certificate with invoice.
- 14. For imported product agency has to provide UL/ETL listed certificate/ Europeon CE certificate with 4 digit notified body number for the imported product as specified with country of origin certificate.
- 15. Bidder / OEM must submit copy of CDSCO certificate for the product/equipment etc. wherever applicable.

16. Safety Codes and Labour Regulations

- i. All the safety procedures outlined in the safety codes applicable for the works shall be complied with.
- ii. In respect of all labour employed directly or indirectly on the work for the performance of MGPS contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty as provided in the labour laws/GCC for each violation. In addition the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.
- iii. The contractor shall provide necessary barriers, warning signals and other safety measures while laying pipelines, duct cable etc. or wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage occurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party issuance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

E. FOR FIRE ALARM & WET RISER SYSTEM

1. **General**: These specifications cover manufacture all preparatory work & testing as may be necessary before dispatch & delivery of equipment's at site, assembly and installation, final testing, commissioning, and one year guarantee period.

2. Submission of drawings

The contractor shall submit the drawing to the Engineer-in-charge as per CPWD General Specifications for part v (wet riser & sprinkler system) 2006 for approval before start of work.

3. Submission of manuals

The successful tenderer should furnish well in advance copies of detailed instructions and manuals of manufacturers for all equipments such as fire alarm zonal panel, main control panel, amplifier, hooter and smoke detector regarding installation, adjustments operation and maintenance i/c preventive maintenance & troubleshooting.

4. Quality of materials and workmanship

- (a) The components of the installation shall be of such design so as to satisfactory function under all conditions of operation.
- (b) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to cause minimum transmission of noise and vibration to the building structure.
- (c) All equipments and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales services.

5. Inspection and testing

- (a) Initial inspection of materials & equipments at manufacturer's works may be done if so required by the Engineer-in-Charge or his representative at his discretion. For item / equipment requiring initial inspection at manufacturer's works, the contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The contractor shall give sufficient advance notice regarding the dates proposed for such tests to the department's representative(s) to facilitate his presence during testing. The Engineer-in-Charge at his discretion may witness such testing. Equipments will be inspected at the manufacturer / authorized dealer's premises, before dispatch to the site by the contractor.
- (b) The department also reserves the right to inspect the fabrication job at factory at the discretion of the Engineer-in-charge and he successful tenderer has to make arrangements for the same.
- (c) The materials duly inspected by engineer-in-charge or his authorised representative shall be dispatch to site by the contractor.
- (d) No additional payment shall be made to the contractor for initial inspection / testing at the manufacturer's works by the representative of the Engineer-in-Charge. However, the department will bear the expenses of its representative deputed for carrying out initial inspection / testing.
- (e) The requirement of initial inspection can be dispensed with waived off by the Engineer-in-Charge.

6. Guarantee

- (a) The contractor shall guarantee the complete system to provide the specified flow and pressure under all conditions & outlets.
- (b) All equipment's shall be guaranteed for a period of 12 months or as agreed or as per the guarantee period mentioned by the OEM from the date of acceptance and taking over of the installation by the Department against unsatisfactory performance and/or breakdown due to defective design, material, manufacture, workmanship or installation. The equipment or component or any part thereof so found defective during the guarantee period shall be repaired or replaced free of cost to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay in being caused by the department at the risk & cost of the contractor. The decision of Engineer-in-charge in this regard in this regard shall be final.

7. Drawings for approval on award of the work

The contractor shall prepare & submit three sets of following drawings and get them approved from the Engineer-in-charge/ authorized representative of E-I-C before the start of the work. The approval of drawings however does not absolve the contractor not to supply the equipment's materials as per agreement, if there is any contradiction between the approved drawings and agreement the decision of the engineer-in-charge shall be final binding on the contractor.

(a) Electrical Layout drawings of the items to be installed on site.

(b) Dimensioned drawings of all electrical panels.

8. COMPLETION DRAWINGS & DOCUMENTS

Three sets of the following laminated drawing shall be submitted by the contractor while handing over the installation to the Department. Out of this one of the sets shall be laminated on a hard base for display in the Electrical control room & Distribution Board. In addition one set will be given on compact disc.

- (a) Installations drawings giving complete details of all the equipment's, including their foundations.
- (b) Plumbing layout drawings giving sizes and lengths of all the pipes and the sizes and location of all types of valves, and including isometric drawings for the entire piping including the pipe connection to the various equipment's.
- (c) Line diagram and layout of all electrical control panels giving switchgear ratings and their disposition.
- (d) Control wiring drawings with all control components and sequence of operations to explain the operation of control circuits.

9. After sales services

The contractor/OEM shall ensure adequate and prompt after sales services in the form of maintenance, spares and personnel as and when required and shall minimise the breakdown period. In case of equipment supplied by other manufacturers the firm shall furnish a guarantee from the manufacturer for the same before the plant is taken over.

- (a) 3 sets of manufacture's technical catalogues of all equipment's and accessories.
- (b) Operation and maintenance manual of major equipment's, detailing all adjustments, operation and maintenance procedure.

F. Other 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 Engineer-in-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-sign by S.S. Bose
Superintending Engineer
AIIMS, Raipur

FORM OF EARNEST MONEY DEPOSIT

(Bank Guarantee Bond)
WHEREAS, contractor (Name of contractor) (Hereinafter called "the contractor") has submitted his tender dated (date) for the construction of (name of work) (hereinafter called "the Tender")
KNOW ALL PEOPLE by these presents that we
SEALED with the Common Seal of the said Bank thisday of
(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*
DATESIGNATURE OF THE BANK
WITNESS

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

SEAL (SIGNATURE, NAME AND ADDRESS)

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
an irrevocable Bank Guarantee for Rs (Rupees
1. We,
2. We,(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the AIIMS Raipur stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupees
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,
5. We, (indicate the name of the Bank) further agree with the AIIMS Raipur that the AIIMS Raipur shall have the fullest liberty without our consent and without affecting in

any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the AIIMS Raipur against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to

...... (Rupees) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities

the said agreement and we shall not be relieved from our liability by reason of any such variation,

under tl	his guarantee shall stand discharged.
Dated th	neday 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-7/8, 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.

2. RATES

- 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 temporary electricity, 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. CLEANLINESS OF SITE

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 Engineer-in-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-CONTRACTORS</u>

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. THE CONTRACTOR SHALL SUBMIT 'METHOD STATEMENT' FOR THE APPROVAL SOON AFTER THE AWARD OF WORK

'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 specialized 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 along with 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 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.

16. 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			
а	b	С	d	е	f	g	h

Ί	'ota	l period	l on account	of hindrances	mentioned a	ıbovel	Months I	Days	š

- 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	Suh	Divisiona	1 Officer	
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ignature 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 (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, inte 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 structure 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 o 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 othe 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 Obligorand by and for and or behalf of the PRESIDENT OF INDIA on the day, month and year first above written.
Signed, sealed and delivered by OBLIGOR in the presence of
1.
2.
Signed for and on behalf of THE PRESIDENT OF INDIA by in the presence of

1.

<u>List I - Civil Works</u>

- 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
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 Chequired	Raj-Tiles/ Bharat/ Rigid Tiles/Advance/Ultra
	tiles	Tiles/NITCO
11.	CP Bottle Trap	Parryware / Hindware/ Jaquar/ GRAFDOER by VMS
		BathwarePvt. Ltd./Prayag
12.	CP Brass Bibcock/ Pillarcock/	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	Enorgy Primar & Dainta	Berger/ Pidilite/ CICO/ BASF/
20.	Epoxy Primer & Paints	SIKA/Asian/Nerolac/ICI Kansai Akzo Nobel.
21.	Fibre Glass Shelf	Kamal/ Bath King or equivalent.
22.	Float/Clear/Frosted/Toughened	Modi Float/ Saint Gobain/ Asahi/AIS/Modiguard.
	/Refractive Glass	, , , , ,
23.	Flush Doors / Shutters as per	Kutty flush door/ Anchor/ Century/
	IS: 2202	Kitlam/Archid/JAYNA/Ashiyana Brand by Evergreen
		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.	GI fitting	Tata/ Jindal/ Zenith/UNIK/AVR/Zoloto.
28.	GI Pipe	Tata/ Zenith/ Jindal (HISAR)/Prakash Surya.
29.	Glass Mosaic Tile	Bissazza/ Saon or equivalent.
30.		Zoloto/ Leader/ SAINT
31.	False Ceiling system	Boral Gypsum / India Gypsum/ Laffarge/ St.
		Gobain(Gyproc)/ Armstrong/Hunter
		Dougals/Aearolite/Gridsquare/Interarch
		Hard crete of Snowcem India/ MC Deritop F.H.
33.	3	Parryware/ Jaquar/ Grohe/ Kohler
34.	Laminate	Marino/ Greenlam/ Decolam/ Century/ Formica/
25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kitlam/Action TESA/Sunmica/Durian
35.	Low Level PVC Cistern Single flush	Sleek model Cistern of PVC of Hindware or 'Slimline'
36.	Melamine Polish	model of Parryware, JINDAL /Prayag Melamine Gold of Asian Paint/Wudfinof
30.	Melanine Ponsii	pidilite/Timbertone of ICI Dullex/ Beegel.
37	Metal False Ceiling	Nittobo / Armstrong / Trac / Durlum /
37.	Metal Paise Celling	Huntordonglas/Aerolite
38.	Mineral Fibre/Calcium silicate	Armstrong / Nitobo / Daiken / Hunter Douglas/
30.	Ceiling	Aerolite
39.	Modular SS Railing System	Metallica India / Stark steel Fabricator / D-line
	2.23 data 22 family by them	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.	Water closet (Orissa Pan/Indian	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

4.0	D1	N 1 / D / 10 N
	Polyester Powder Coating	Nerolac/ Berger/ J&N
49.	Poly Sulphide Sealant	PIDISEAL by M/s Pidilite Industry/RDL941-
<u> </u>	Polymer Modified Cementitious	TECHSEALChokseyChemicals/BASF/SIKA/Fosroc BalEndura/
50.	· ·	PidiliteKeroKoal/Ultratech/Ardex/Ferrous Crete.
51.	grout Pre-laminated Particle Board IS:	Kitlam/ Tesa/ Archidply/Eco brand/Century/Bhutan
31.	12823 (Gr-I/ Type-II)	board/Action Tesa/Greenlam/Merino
52.		Decoprime WT of Asian/ white primer of ICI/BP white
02.	Timer (cement rimer)	of Berger/ Nerolac
53.	PVC Rain Water Pipe & Fitting	Finolex/ Classic of Kisan/ Kasta/ Supreme/AKG.
54.		Rajshri/ Sintex/Polyline/Duroplast/Jain wood
		Industries.
55.	PVC Tiles	Arm Strong/ LG or equivalent.
56.		GKW / Nettle Fold or equivalent.
57.		G.E./ DOW Corning/Waker/BASF/Pidilite/ROFF
58.		EWC standard seat cover white of
		Parryware/Hindware/'KEROVIT' by Kajaria
59.	Stainless Steel	Jindal Stainless Steel/ Salem Steel
60.	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.
		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.
64.	1 1	MC Baucheme/ Sika/ Fosroc
65.	Synthetic Enamel Paints	Gloss Synthetic Enamel of ICI(Dulux)/Asian (Apcolite
		Premium gloss)/Berger (Luxol Hi Gloss)/ Synthetic Hi
	m	Gloss of Nerolac
66.		Raj-Tiles/Bharat/ Rigid Tiles/NIC/A-1/GTC
67.	Cement Concrete Paver Block &Kerb stone	Rigid Tiles/ Raj-Tiles/Advance
68.	Textured Exterior wall paint	Spectrum/ Ultratech / Heritage by Bakelite coating
		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
	windows	Enterprises Jaipur/ Nclalltek&seccolor ltd.
		Hydrabad/ ultimate safety metals.
71.	Veneer	Archid/ SUN/ Durian/ Ventura/ NLDK
72.		Hindware / Parryware / KEROVIT' by
	Oval	Kajaria/CERA/Jaguar/ESSCO by Jaquar /Prayag
73.		Parryware / Hindware / KEROVIT' by Kajaria/
	European with Cistern Complete	CERA/Jaguar/ ESSCO by Jaquar / Prayag
74.		Parryware / Hindware / KEROVIT' by Kajaria/
7-	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
7.0	Witnesses Object to to see A. C. 1	magnum of Parryware / ESSCO by Jaquar / Prayag
76.	Vitreous China laboratory Sink	Hindware / Parryware / KEROVIT' by Kajaria/
		CERA/Jaguar/ ESSCO by Jaquar/Prayag

77.		Hindware / Parryware / KEROVIT' by Kajaria/
	Cistern for European W.C.	CERA/Jaguar/ ESSCO by Jaquar/Prayag
78.	Vitreous China Pedestal for	Pedstal of Parryware / Hindware or equivalent/
	Wash Basin	CERA/Jaguar/ ESSCO by Jaquar/Prayag
79.	Vitreous China Wall Mounted	Parryware / Hindware / KEROVIT' by Kajaria/
	W.C. with vitreous Cistern	CERA/Jaguar/ ESSCO by Jaquar/Prayag
	(component)	
80.	Vitreous China Wall Mounted	Parryware / Hindware / KEROVIT' by Kajaria/
	W.C. without Cistern.	CERA/Jaguar/ ESSCO by Jaquar/Prayag
81.	Vitreous China Wash Basin	Hindware / Parryware / KEROVIT' by Kajaria/
	Rectangular without Pedestal	CERA/Jaguar/ ESSCO by Jaquar/Prayag
82.	Vitrified /Porcelain Tile	Marbogranit/ Euro/ Somany/ diamond of Naveen
	,	/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
	(Liquid)	water proofing/ Impermo/FOSROC/Dr.Fixit (Pidilite
	(234010)	Industries))/BASF/ROFF/SIKA/ArdexEndura
		(BalEndura).
85.	White Cement	JK White/ Birla White.
86.		AKG/Ashirvad/PRIME FLOW OF KRISHI
00.	er ve ripes as per is. 13776	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.		Tata/Sail/RINL/Jindal/Jindal steel & power ltd.
89.	Block Boards as per IS: 1659	JAYNA/Century/Greenply/Archid/Kitply or
09.	Block Boards as per 13, 1009	equivalent.
00	Brass bib cocks/stop cock	Marc/Parko/Jaquar/SPRING COLLECTION OF
90.	Brass bib cocks/stop cock	PRIMA as per IS: 781 or equivalent/Prayag
0.1	Drogg hall apply (Flact valve)	Marc/Parko/Jaquar /SPRING COLLECTION OF
91.	Brass ball cocks (Float valve)	
00	W/s4su uss4su	PRIMA as per IS:1703 or equivalent/Prayag
92.	Water meter	SPRING COLLECTION OF PRIMA as per IS: 779 or
00	11DDD D. 10 4004	equivalent.
93.	HDPE Pipes as per IS:4984	KRISHNA plast pipes/KSR by Kisan
0.4	DI (0 D) 10 4005	irrigation/Supreme/Reliance/Jain
94.	uPVC Pipes as per IS: 4985	KRISHNA plast pipes/AKG/ KSR by Kisan
0.5	DIVO O	irrigation/Supreme/Astral/Prince/Ashirwad/Prayag
95.	811	KRISHNA plast pipes/KSR by Kisan
	for bore well/tube well as per IS	irrigation/Supreme/Prayag
0.5	: 12818	WDIGHTA 1
96.	uPVC-SWR Pipes SN 8 as per IS:	KRISHNA plast pipes/KSR by Kisan
	13592	irrigation/Finolex/AKG/Supreme/Prince/Ashirwad/
		Astral/Prayag
97.	Wooden Shutter with frame	Siesto Brand by Bramsaria doors or equivalent.
98.	uPVC Windows/Doors	SIESTO Brand by Bhimsaria
		Polymers/Duroplast/Fenesta/Komerling/Wintech/Al
		uplast
	Cement (OPC/PPC)	A.C.C., Jaypee Cement, Ultratech, Shri Cement, JK

		Lakshmi, GujratAmbuja Cement and Cement
		Corporation of India.
100	Corrugated GI Sheets	Tata, Essar , Sail JSW, Bhusan
	Colour coated profile sheets	Tata (Ezydeck)/Lloyd Superdeck/JSW/Jindal
	Float Glass Profile Sheet TATA	Tata, Modiguard, Saint Gobain
	(transparent)	rata, monigati a, same aosam
103	Aluminium doors & window	Jyoti , Argent, Everest/Kilong/Alualpha/classic/Ebco
	fittings (Heavy duty)	
104	Steel/Wood primer / paint	ICI delux, nerolac, berger, asian
105	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
100	hot insulation as per IS: 13204	
109	Surface Texture Finishes	Heritage manufactured by Bakelite Coatings & paints
110	DDD 011 "	ltd. or equivalent
	FRP Chhajjas	Selected Products Company or equivalent.
	FRP Porta cabin	Selected Products Company or equivalent.
	G.I. Wire-mesh/Netting	Selected Products Company or equivalent.
113	Wall Putty (White Cement based)	Buildwell (Walplast Products Pvt. Ltd.)/Birla wall care/JK white/Berger/Asian paints/ferrous Crete
11/	AAC block	'Ecorex' manufactured by EcorexBuildtechpyt. Ltd. or
117	AAC BIOCK	equivalent.
115	UPVC Agriculture/Pressure	AKG Extrusion Pvt Ltd. or equivalent /Prayag
	pipes and fittings	1 , 3 5
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.
110	aluminium doors & windows.	W 11 O1 W 1 (D) I (1 D : 1 1)
119	Processing and fabrication of glass (toughened, DGU and	Wadhwa Glass Works (P) Ltd., Raipur or equivalent.
	lamination	
120	Glass reinforced Gypsum (GRG)	'Diamond' manufactured by Diamond International
120	false ceiling	Inexpyt. 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
	and IS: 7834	, , , ,
124	PVC underground draingae pipes	Supreme or equivalent/Prayag
	(structured wall type) as per IS:	
	16098	
	PVC septic tanks	'Safegard' by Supreme or equivalent
126	PVC underground water tanks	'Amrutam' by Supreme or equivalent

1.07	DV/O 1 1. 4. 1.4. 1.1. 1	(01
	PVC readymade toilet blocks	'Cleanage' by Supreme or equivalent
	PVC chambers & Manholes	Supreme or equivalent
129	Pre-Painted/powder coated CRC	M/s classic engineers and fabricators/ M/s JK
	windows	Enterprises Jaipur/ Nclalltek&seccolor ltd.
		Hydrabad/ ultimate safety metals.
130	White cement based polymer	Ultratech/Dr.Fixit/ Sika/ Fosroc
101	modified self curringmortor	
	Gypsum plaster	Ferrous crete/ Gyproc (Elite-90)/ Ultratech
132	Tile Adhesive	Ferrous Crete / Ardex/ Endure (Gold Star)/ Pidilite
		(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
	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 fittings	Jindal/Dorma/Kich/Dorset/Godrej/Ozone
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	
	SFRC manhole cover & Grating	K.K./Jain Pragati
148	C.P. Brass fittings (Superior	Jaquar/Grohe/Roca/Prayag
	Range)	
	· ·	
149	Sanitary ware fittings & Accessories (Superior range)	Kohler/Roca/Hindware/Parryware/Prayag

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.

		and its non-availability to his satisfaction.
S1.	Item	Acceptable Makes
No.		
1	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/
	Thermomagnetic releases	GE/C&S Electric
	MOOD 11 W 11	T 0 W (D C;) ADD (ICC M) C;
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	DVC Condition	DECAYO MV Appleau Eingland Could Could
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.
	,	J ,
10	Modular Switch / Socket /	Crabtree (VERONA), Anchor (Vision), L&T(Entice),
10	,	
	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.	
1 /	HRC Protection Fuses/ Fuse	Siemens/ L&T/ Schneider /ABB
14	Fittings.	·
15	Selector Switches/ Indicating	AE/ Enercon/ L&T/ Neptune/ Conserve/
	Lamps (LED type)	Secure/ Keycee/ Vaishnav
	1 1 1	, , ,

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.
25	MPCB	L&T, ABB, Siemens, Schneider
26	LED fittings	Havells/Wipro/CGL/Philips/Bajaj/Osram/
		Halonix
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,
2,7	controller	D&B audiotechnik, Meyer Sound
20		
30	Ceiling Fan	Havells/Bajaj/Usha/Crompton
31	Power Capacitor	Neptune/ L & T/ ABB/ Siemens
32	Thyristor switching module	Neptune/ L & T/ ABB/ Siemens
33	Thyristor/ Capacitor Fuse	Eaton/ L & T/ ABB/ Siemens
34	Automatic power factor relay	L & T/ ABB/ Siemens
35	Coaxial Fan	Rexnord or equivalent
36	Hermitically sealed door	Metaflex or equivalent as approved by Engineer- in-charge
	<u>I</u>	g-

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 /	Make
	materials	
1	Fire alarm Zonal Panel, Main Control Panel, sounder MCB, Talkback unit/ Response Indicator/Detector	Agni Instruments Engineers India Pvt ltd / Safeway Security System / Electroquip / Steel age Industries (Minmax) (Honeywell)/ Edward/ / Notifier
		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 valves	Newage / Minimex / Padmini / Getech/Omex.
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
2	INSULATION:-	
a	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 (FRLS), Cables / Telephone wire	Havells / RR Kabel / Polycab / Finolex/ Anchor/ L&T (All with ISI Marked)
10	Circuit breakers/MCB / MCB DB's / RCCB	Legrand / L&T / Hager / Seimens / Schneider/ 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

APPROVED MATERIALS LIST (MGPS)

- 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	Medical grade copper pipe	Mehta Tube-India/Rajco-India/Lawton
2	Gas Terminal Outlets (Gas	AMICO-Canda/Atla Copco UK/MEC
	Outlets)	
3	Bed Head Panel	MDD/PMP/MGI
4	Double Arm Motorized	LM Medical- Italy / AMCIO-Canada/ MEC
	Pendant	
5	Area Valve Box	MDD/PMP/MGI
6	Medical Gas Area Alarm	AMICO-Canda/Atla Copco UK/MEC
	Services	
7	Monitor with Monitor Arm	Rien Medical-Germany/Nexor-Germnay/LM
		Medical-Italy.
8	SS Puff Panel	Tata/Jindal
9	Antibacterial Coat Paint	Jotun/Sikka
10	Laminar plenum	MDD/PMP/MGI
11	Peripheral Lights	Wipro/Philips

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) : (Attached in e-procurement site)

SCHEDULE 'D'

Extra schedule for specific requirements/

document for the work, if any.

Nil

SCHEDULE 'E'

Reference to General Condition of Contract : CPWD GCC-2023 (Maintenance work)

modified and amendment up to the

last date of submission of tender.

Name of work : Up-gradation works at Gastroenterology Department in AIIMS

Raipur.

Estimated Cost of work : ₹ **2,72,61,136.00/- where**

Civil : ₹85,17,983.00

Electrical : ₹ 58,33,393.00

AC&R : ₹24,22,184.00

Fire fighting & RO water cooler : ₹ 17,94,893.00

MGPS & related work : ₹86,92,683.00

(i) Earnest money : ₹ **5,46,000.00**

(To be returned after receiving of

Performance Guarantee)

(ii) Performance Guarantee : 5% of tendered value.

(iii) Security Deposit : 2.5% of tendered value.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer inviting tender : Superintending Engineer , AIIMS

Raipur on behalf of Executive

Director AIIMS Raipur.

Maximum percentage for quantity of items of work to be executed beyond which rates

are to be determined in accordance with : See below

Clauses 12.2 & 12.3.

Definitions:

2(vi) Engineer-in-Charge

Superintending Engineer, AIIMS

Raipur

2(viii) Accepting Authority

Superintending Engineer, AIIMS

Raipur (C.G)

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

15%

2(x)(b) Standard Schedule of Rates

As per DSR (E&M) 2022, DSR (Civil)

2023 and Market Rate

2(xi) Department

Engineering Department Project

Cell, AIIMS Raipur.

9(ii) Standard CPWD contract Form

GCC (Maintenance work) 2023 CPWD Form 7/8 as modified corrected up to last date of receipt of Bid/tender.

CLAUSE 1

(ii)

Time allowed submission for of

Performance Guarantee, programme chart (Time and progress) and applicable labour Licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying Thereof from the date of issue of letter of acceptance

07 Days

(iii)

fee

@ 0.1% per day of Performance Guarantee amount beyond the period Provided in (i) above Maximum allowable extension with late

03 Days

CLAUSE 2

Authority for fixing compensation under clause 2

Superintending Engineer/ Executive

Director, AIIMS

CLAUSE 2A

Applicable clause 2/ Clause 2A

CLAUSE 2

CLAUSE 5

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below:-

10 Days

		Time allowed in	Amount to be with-
S1	Description of Milestone (Physical)	days (from date of	held in case of
No		start)	non-achievement
			of
1	—		
2	NIL		
3			
4			

Time allowed for execution of work – 09 Months.

Authority to decide:

(i) Extension of time : Superintending Engineer, AIIMS Raipur (C.G.)

(ii) Rescheduling of mile stones : Superintending Engineer / Executive Director, AIIMS Raipur

(iv) Shifting of date of start in case of

delay in handing over of site : 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		

Clause 5

Applicable clause 5/ Clause 5A : Clause 5

Clause 6: Mode of Measurement : CMB

Computerised Measure Book (CMB)/ Electronic Measure Book (EMB)

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. 30 Lakh

CLAUSE 7 A

Whether clause 7A shall be applicable :

CLAUSE 10A : As required by Engineer-in-

Charge

YES

CLAUSE 10B (II)

Whether Clause 10 B (ii) shall be applicable : **Not Applicable**

CLAUSE 10C

Component of labour expressed as percent of

value of work : Not Applicable

CLAUSE 10CC : Not Applicable

CLAUSE 11

Specifications to be followed for execution of work

: CPWD General Specifications for Civil 2019 Vol-1 & II Heating, Ventilation & (HVAC) Air-Conditioning 2017, Electrical Works, Part-I (Internal-2023), Part-II (External-2023), Part-IV Station- 2013), Part- V (Wet Riser & Sprinkler Systems- 2020), Part- VI (Fire Detection and Alarm System-2018), Part-Based Fire Extinguishing (Gas System 2013), **CPWD** General Specification for Medical Gas Pipe System 2022 amended up to date and additional terms & conditions attached.

CLAUSE 12

Authority to decide deviation upto 1.5 times : <u>Superintending Engineer /Executive</u>

of tendered amount <u>Director, AIIMS Raipur</u>

12.2

Deviation Limit beyond which clauses
12.2 & 12.3 shall apply for building work : No limit

CLAUSE 16

Competent Authority for deciding reduced : Superintending Engineer/ Executive Director, rates.

AIIMS 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

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>

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

CLAUSE 32 : Applicable

Requirement of Technical Representative(s) and recovery Rate

S1.	Minimum	Discip	Designation	Mini	Nu	Rate at which r	ecovery shall be
No	qualification of	lin	(Principal	mu	mbe	made from the	contractor in the
	technical		technical /	m	r	event of not ful	filling provision
	representative		Technical	Exp		of clause 36 (i)	
			representative	eria			
				nce			
						Figure	Words
1	Graduate	Site	2 or 5	2 or	1	Rs. 15000/-	Rupees Fifteen
	Engineer or	Engin		5		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 (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
1	2	3	4	5	6
Civil v	work				
1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	3.00	Cum	11505.50	34516.50
2	Centering and shuttering including strutting, propping etc. and removal of form for				
2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	26.00	Sqm	736.40	19146.40
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	300.00	Kg	107.85	32355.00
4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	15.00	Cum	9344.35	140165.25
5	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
5.1	Cement mortar 1:6 (1 cement : 6 Coarse sand)	17.00	Cum	8752.55	148793.35
6	Granite work gang saw cut (polished and machine cut) of any colour, shade and thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the granite shade (To be secured to the backing by means of cramps, which shall be paid for separately): Granite stone slab of colour black, cherry/ omm red:				
6.1	Area of slab over 0.50 sqm	115.00	Sqm	6962.29	800663.35
7	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss				

SI. No.	Item Description	Quantity	Units	Estimated	TOTAL AMOUNT
NO.				Rate (Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
	finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red				
7.1	Area of slab upto 0.50 sqm	5.00	Sqm	5413.50	27067.50
7.2	Area of slab over 0.50 sqm	10.71	Sqm	5136.30	55009.77
8	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	6.60	metre	568.55	3752.43
9	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement: 2 coarse sand), including making the necessary chases in stone and holes in walls wherever required	40.00	Kg	714.40	28576.00
10	Providing and fixing ommissi or ommissi and glazing in ommiss or ommiss and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for ommiss or ommiss and glazed shutters 25 mm to 40 mm thick: Float glass panes				
10.1	5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	32.00	sqm	2600.45	83214.40
11	Extra for providing frosted glass panes 4 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	15	sqm	176.4	2646.00
12	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
12.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	9.00	Sqm	3473.85	31264.65
13	Providing and fixing IS: 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete:				
13.1	100x60x2.50 mm	16.00	Each	106.35	1701.60
14	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.				
14.1	40 mm	152.00	Each	311.20	47302.40
15	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with Isi, IS: 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary	8.00	Each	983.15	7865.20

SI. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT
				(Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
	accessories and screws etc. complete.				
	Providing and fixing aluminium sliding door bolts, ISI marked ommissi (anodic coating not less than				
16	grade AC 10 as per IS : 1868), transparent or dyed				
	to required colour or shade, with nuts and screws				
	etc. complete :	15.00			
16.1	250x16 mm	12.00	Each	260.60	3127.20
	Providing and fixing aluminium tower bolts, ISI marked, ommissi (anodic coating not less than				
17	grade AC 10 as per IS: 1868) transparent or dyed				
	to required colour or shade, with necessary				
	screws etc. complete :	45.00			4 40 7 70
17.1	200x10 mm	15.00	Each	99.70	1495.50
	Providing and fixing aluminium handles, ISI marked, ommissi (anodic coating not less than				
18	grade AC 10 as per IS : 1868) transparent or dyed				
	to required colour or shade, with necessary				
10.1	screws etc. complete :	0.00	Fl.	66.35	F20.00
18.1	Providing and fixing aluminium hanging floor door	8.00	Each	66.25	530.00
	stopper, ISI marked, ommissi (anodic coating not				
19.00	less than grade AC 10 as per IS : 1868) transparent				
	or dyed to required colour and shade, with				
10.1	necessary screws etc. complete.	15.00	Fach	72.25	400F 2F
19.1	Twin rubber stopper Providing and fixing magnetic catcher of	15.00	Each	72.35	1085.25
20	approved quality in cupboard / ward robe				
20	shutters, including fixing with necessary screws				
20.1	etc. complete.	405.00		20 70	7044.50
20.1	Double strip (horizontal type)	185.00	Each	39.70	7344.50
21	Providing and fixing bright /matt finished Stainless Steel handles of approved quality &				
	make with necessary screws etc all complete.				
21.1	100mm	177.00	Each	90.45	16009.65
	Providing and fixing cupboard shutter with 19mm				
	thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply				
	as per IS 710 of approved brand including 2mm				
22	thick PVC edge banding tape with hot glue by	613.00	Sqm	2829.25	1734330.25
	edge bending machine etc. with auto closing	013.00	Sqiii	2023.23	1704000.20
	spring loaded hinges (hydraulic type) etc. complete as per direction of Engineerin-				
	charge.(Payment of providing and fixing auto				
	closing hinges shall be paid separately)				
	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete				
23	as per direction of Engineer-in-charge.	20.00	Each	186.65	3733.00
	200 mm				
	Providing and fixing stainless steel soft closing				
24	heavy type telescopic drawer channels of approved make 500 mm long with screws etc.	49.00	one set	885.10	43369.90
	complete as per directions of Engineer- in-charge.				
	Providing and laying Vitrified tiles in different				
25	sizes (thickness to be specified by the				
	manufacturer), with water absorption less than				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
25.1	Size of Tile 600x600 mm	201.00	Sqm	1893.90	380673.90
26	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with ommission butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
26.1	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	15.00	Sqm	2068.75	31031.25
27	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped ommission				

Site el sections (ommissioni @ 120 grams per sqm including both side) consisting of main 17 runner suitably spaced at joint's toget required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, 1200 em mon 0.33 mm thick (minimum) sheet, 1200 em mon 0.33 mm thick (minimum) sheet, 1200 em sheet, 1200 em mon ong spaced between main' 13 to 600 mm and secondary cross 1" of length 600 mm and size 24x 282 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of 3 size (24x24X8000 mm made of 0.40 mm thick (minimum) sheet with the help of rand plugs at 36 size (24x24X8000 mm made of 0.40 mm thick densified edges ommiss silicate celling tiles of approved texture in the grid, including, cutting/making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors stc, wherever required. Valian 1" runners to be suspended from celling using 6.1. slotted destectors stc, wherever required. Valian 1" runners to be suspended from celling using 6.1. slotted destectors stc, wherever required. Valian 1" runners to be suspended from celling using 6.1. slotted destectors stc, wherever required with a celling using 6.1. slotted destect of stc 26x35x3.4. mm fixed to celling with 1.25 mm dia and 50 mm long dash fasteners, 4 mm 6.1. adjustable rode with onmission steel level clips of size 8x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 1", bottom exposed with 2 mm of all Tsections skell be prepared—in-charge. Note : Only calcium silicate false celling area will be measured from wall to wall. No dediction shall be made for exposed frames/opening (cut outs) having area less than 0.3 segm. The calcium silicate celling tile shall have NRC value of 0.50 (Minimum), light reflections 85%, non-combustible as per 8.5. 476 part N, 100% humidity resistance and also having thermal co	SI.	Item Description	Quantity	Units	Estimated	
steel sections (ommission) @ 120 grams per som including both side) consisting of main 'T' runner sultably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross 'To' 6 size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main! "at 600 mm centre to centre to to centre to form a grid of 1200x600 mm and secondary cross 'To' of size 24x28 mm made of 0.33 mm thick (Minimum) sheet, 1200 mm long secondary cross 'To' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at midle of the 1200x 600 mm panel to from grid of size 600x800 mm, resting on periphery walls / partitions on a Perimeter will angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall sizeness (@ 230 mm interval and laying 15 mm thick densified edges ommiss silicate ceiling silice of approved reture in the grid, including, cutting/ making opening for services like diffusers, grils, light fitnings, fistures, smoke detectors etc., wherever required. Abin 'T' runners to be suspended from ceiling using G.1. slotted cleats of size 25x331.61 mm fixed to ceiling with 1.25 mm dia and 50 mm long dash fasteners, 4 mm G.1. adjustable rods with domission steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', buttom exposed with 24 mm of all Tsections shall be prepalated with polyster backed paint, for all helpits, as per specifications, drawings and as directed by Engineer-in-Charge. Note: Only calcium silicate false ceiling area will be measured from wall to wall. No dedection shall be made for exposed frames/opening (cut outs) having area less than 0.3 sqm. The calcium silicate ceiling the wall. No dedection shall be made for exposed with 3 wall was a strength of the silicate shall be made for exposed with 4 mm of all Tsections shall be prepalated with polyster bea		item bescription	Quantity	Offics	Rate (Inclusive of	(Inclusive of all
steel sections (commission) @ 120 grams per som including both side) consisting of main "I runner suitably spaced at joints to get required length and of size 2x438 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "I" of size 2x428 mm made out of 0.33 mm (Minimum) sheet, 1200 mm centre to centre to form a grid of 1200x600 mm long spaced between main" at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross. "I" of length 600 mm and size 2x x28 mm made of 0.31 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size (2x4x2x300 mm made of 0.40 mm thick (minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size (2x4x2x3000 mm made of 0.40 mm thick (minimum) sheet with the help of cavel plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick degrished deges ommiss silicate ceiling lete of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main T' runners to be suspender from ceiling using G.I. slotted cleast of size 25x35x1.6 mm fixed to ceiling with 12.5 mm di and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with momission steel level clips of size 85x 30 x 0.8 mm, specad at 1200 mm centre to centre along main T', bottom exposed with 24 mm of all Tesctions shall be prepainted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer in Charge. Note: Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be meade for exposed frames/opening (cut outs) having area less than 0.30 sgm. The colcium silicate ceiling title shall have NRC value of 0.50 (Minimum), light reflection > 85%, non-combustible as per 8.5. 476 part IV, 100%, humidity resistance and also having thermal conductivity <0.043 w/m /m. 28 12 mm cement plaster of					•	Rs. P
be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK. 28		including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges ommiss silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with ommission steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be prepainted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.			Rs. P	
28.1 1:6 (1 cement: 6 fine sand) Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. Distempering with 1 st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.	27.1	be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, noncombustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal	256.00	sqm	2158.15	552486.40
Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. Distempering with 1 st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.		*				_
of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. Distempering with 1 st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.	28.1		261.00	Sqm	343.65	89692.65
having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.	29	of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	311.00	Sqm	156.05	48531.55
30.1 Old work (One or more coats) 270.00 Sqm 62.7 16929.00	30	having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and				
	30.1	Old work (One or more coats)	270.00	Sqm	62.7	16929.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
31	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
31.1	Two coats	600.00	Sqm	137.45	82470.00
32	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	100.00	Sqm	25.15	2515.00
33	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
33.1	One or more coats on old work	75.00	Sqm	102.80	7710.00
34	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer – incharge.	3.00	Cum	3551.25	10653.75
35	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge				
35.1	In cement mortar	54.00	Cum	2060.20	111250.80
36	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	222.50	Sqm	56.35	12537.88
37	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-incharge, beyond 50 m initial lead, for all leads including all lifts involved.	104.00	Cum	263.95	27450.80
38	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	7.00	Each	3960.55	27723.85
39	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required: Kitchen sink without drain board				
39.1	610x510 mm bowl depth 200 mm	5.00	Each	4940.80	24704.00
40	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				

SI.	Item Description	Quantity	Units	Estimated	
No.	nom Boschpaon	Quantity	Omico	Rate	TOTAL AMOUNT
				(Inclusive of	(Inclusive of all Taxes) in
				all taxes) in Rs. P	Rs. P
40.1	Flexible pipe			113. 1	
40.1.1	32 mm dia	11.00	Each	119.55	1315.05
	Providing and fixing Chlorinated Polyvinyl				
	Chloride (CPVC) pipes, having thermal stability for				
	hot & cold water supply, including all CPVC plain &				
41	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.				
41.1	50 mm nominal dia Pipes	100.00	metre	934.15	93415.00
	Providing and fixing Chlorinated Polyvinyl				
	Chloride (CPVC) pipes, having thermal stability for				
	hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with				
	clamps at 1.00 m spacing. This includes jointing of				
42	pipes & fittings with one step CPVC solvent				
	cement and the cost of cutting chases and making				
	good the same including testing of joints complete				
	as per direction of Engineer in Charge. Concealed work, including cutting chases and making good				
	the walls etc.				
42.1	20 mm nominal dia Pipes	100.00	metre	537.60	53760.00
	Making connection of G.I. distribution branch with				
43	G.I. main of following sizes by providing and fixing				
	tee, including cutting and threading the pipe etc.				
43.1	complete : 25 to 40 mm nominal bore	10.00	Each	911.90	9119.00
43.1	Providing and fixing uplasticised PVC connection	10.00	Lacii	311.50	0110.00
44	pipe with brass unions :				
	45 cm length				
44.1	15 mm nominal bore	14.00	Each	97.75	1368.50
	Providing and fixing C.P. brass angle valve for				
45	basin mixer and geyser points of approved				
	quality conforming to IS:8931	20.00			47000.00
45.1	15 mm nominal bore	30.00	Each	574.30	17229.00
	Providing and fixing PTMT grating of approved quality and colour.				
46	Circular type				
46.1	100 mm nominal dia	20.00	Each	37.60	752.00
	Providing and fixing aluminium work for doors,				
	windows, ventilators and partitions with extruded				
	built up standard tubular sections/ appropriate Z				
	sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with				
	dash fasteners of required dia and size, including				
47	necessary filling up the gaps at junctions, i.e. at				
7/	top, bottom and sides with required EPDM				
	rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and				
	jointed mechanically wherever required including				
	cleat angle, Aluminium snap beading for glazing /				
	paneling, C.P. brass / stainless steel screws, all				
	complete as per architectural drawings and the				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	directions of Engineer-in-charge. (Glazing,			Rs. P	
	paneling and dash fasteners to be paid for separately): For fixed portion				
47.1	Powder coated aluminium (minimum thickness of	159.00	Kg	530.90	84413.10
	powder coating 50 micron) For shutters of doors, windows & ventilators				
47.2	including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
47.2.1	Powder coated aluminium (minimum	144.00	Kg	634.45	91360.80
47.2.1	thickness of powder coating 50 micron)	144.00	Ng	034.43	91300.00
48	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in ommissi fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineerin- charge.				
	Pre-laminated particle board with decorative lamination	13.00	Causa	1115 40	14500.20
48.1	on both sides	15.00	Sqm	1115.40	14500.20
49	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
49.1	With float glass panes of 5 mm thickness (weight not	15.00	Sqm	1505.25	22578.75
50	less than 12.50 kg/sqm) Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	14.00	Each	528.85	7403.90
51	Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete:	190.00	Each	144.05	27369.50
52	Providing and fixing minimum 2 mm thick seamless PVC flooring joints should be welded by special PVC thermal welding units using PVC welding bars of same colour. The corners should not be terminated sharply and sealed perfectly and uniformly. Flooring should be homogenous single layer conductive flooring. Corners should be uniformly curved, final surface should be non corrosive to biological fluids and detergents, etc. all complete and as per the directions of Engineer In charge.	124.00	Sqm	3170.97	393200.28
53	Providing & Fixing 6 mm thick BWP grade marine ply as per IS 710 of approved brand over flush door and MS door frame including required	9.00	Sqm	929.18	8362.62

SI.	Item Description	Quantity	Units	Estimated	TOTAL AMOUNT
No.				Rate (Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
	screws, nails, glue etc, all complete as per the			NS. F	
	direction of Engineer in charge.				
	Providing & Fixing 2 mm thick Lead sheet over				
54	flush door and MS door frame including required	5.00	Sqm	12083.45	60417.25
	screws, nails, glue etc, all complete as per the	0.00	Jqiii	12003.43	33111123
	direction of Engineer in charge.				
	Providing and fixing in position single bay stainless steel (304 grade) scrub station of size				
	900x508x1360 mm with automatic sensor & foot				
	operated tap with hot and cold water	2.00	F	450440.04	246024 62
55	temperature controller valve and foot operated	2.00	Each	158410.81	316821.62
	soap dispenser arrangement of approved make				
	and quality as per the direction of engineer in				
	charge.				
	Providing and fixing in position stainless steel (304 grade) 1.5 mm thick sheet Washing station of size				
	1800x600x900 mm with proper hole of inlet line				
56	and Drainage line in required size, shape &	1.00	Each	93000.84	93000.84
	arrangement of approved make and quality as per				
	the direction of engineer in charge.				
57	Providing and fixing nickel plated M.S. pipe				
	curtain rods with nickel plated brackets :				
57.1	25 mm dia (heavy type)	17.00	Metre	186.40	3168.80
	Providing and fixing powder coated aluminium				
	channel of size 27.20 x 20.20 mm and thickness 1.2 mm, with metal runner made of MS & PVC				
	material in the ceiling pipe set 2 mm thick Tee				
	powder coated of required size and MS powder	105.00			40======
58	coate fitting wall to wall of size 50 x 25 mm	105.00	metre	1293.15	135780.75
	thickness 2.5 mm and other required fittings,				
	screws, hardware etc all complete of approved				
	quality & make as per the instructions of Engineer				
	in charge. Providing and fixing anti Microbial, anti Fungal,				
	waterproof, polyster fabric ICU curtain of 180				
	GSM in required size, thickness & colour including				
59	fixing to the channel with required fittings,	220.00	Sqm	495.67	109047.40
	hardware etc all complete of approved quality &				
	make as per the instructions of Engineer in				
	Charge.				
	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of				
60	430x260x350 mm or 340x410x265 mm sizes	2.00	Each	1648.95	3297.90
	respectively.				
	Providing and fixing of polyster fabric,net parallel				
	Zebra blind curtain in required size , thickness &				
61	colour including fixing with required fittings,	2.50	sqm	5150.09	12875.23
	hardware etc all complete of approved quality & make as per the instructions of Engineer in				
	charge.				
	Providing and fixing of 1 mm thick fabric Vertical				
	roller blind curtain in required size & colour				
62	including fixing with required fittings, hardware	59.00	sqm	3639.84	214750.56
	etc all complete of approved quality & make as				
	per the instructions of Engineer in charge.				
63	Providing and fixing Chlorinated Polyvinyl				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
63.1	100 mm nominal dia Pipes	180.00	metre	3271.70	588906.00
64	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
64.1	15 mm nominal bore	5.00	Each	820.70	4103.50
65	Providing and fixing frosted film over the glass of windows, glass partition etc including cutting of film in a certain design, shape all complete as per the instructions of Engineer In charge.	64.00	Sqm	1179.12	75463.68
66	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineerin-charge (Door handle, lock and stopper etc.to be paid separately).	6.30	Sqm	5325.90	33553.17
67	Providing and fixing 12 mm thick frameless toughened glass of approved brand and manufacture, including providing and fixing Stainless steel section (if required), Stainless steel L- connector, fixing arrangement, filling gap with silicon sealant and making necessary holes etc. all complete to ensure stability and stiffness of the partition as per direction of Engineer-incharge.	20.00	Sqm	3012.43	60248.60
68	Providing and fixing 40 mm thick HPL (Hinge Pressure Laminate) Hermetic Hinge single Leaf Door for civil opening 1800(W)x2100 (H) with S.S. Ball bearing hinges , "D" Handles , both side key operation dead lock ,View window size 300x300 mm ,sealing gasket, Automatic Drop seal ,door seal and one door closer etc. all complete as per instructions of Engineer In charge.	1.00	one set	128037.29	128037.29
69	Providing and fixing anti microbial Epoxy flooring of thickness not less than 3 mm, in required colour, patterns etc. having anti skid properties, corners should be uniformly curved, final surface should be non corrosive to biological fluids, detergents etc. all complete as per the instructions of Engineer In charge.	250.00	Sqm	2778.32	694580.00
70	Providing and fixing 15-17 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias, skirtings and similar locations of required size, approved shade, colour and texture laid with epoxy resin based adhesive, joints treated with white cement, mixed with matching pigment, epoxy touch ups, including	36.00	sqm	5724.44	206079.84

SI.	Item Description	Quantity	Units	Estimated	TOTAL AMOUNT
No.				Rate (Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
	rubbing, cleaning, moulding and polishing to edges to give high gloss finish etc. complete at all levels: Granite stone slab colour black, Cherry/Ruby red and any size:				
71	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :				
71.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	Each	5957.90	11915.80
72	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	8.00	Each	1607.95	12863.60
73	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	20.00	Each	168.35	3367.00
74	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	20.00	Each	231.95	4639.00
75	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS: 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:				
75.1	12.5 mm thick tapered edge gypsum plain boardconforming to IS: 2095- (Part I):2011 (Board with BIS certification marks)	62.00	sqm	1355.80	84059.60
76	Providing and pasting wall sticker wallpaper thickness of 150-200 gsm over the Wall including adhesive, Glu,,cutting of wallpaper in a certain design, shape all complete as per the instructions of Engineer In charge.	120.00	sqm	1111.93	133431.60
Electr	rical work				
77	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.				
77.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	403.68	Metre	247.75	100011.72
77.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	199.68	Metre	292.41	58388.43
77.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	554.59	Metre	355.14	196957.09
77.4	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	1132.57	Metre	570.99	646686.14
77.5	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	156.29	Metre	1451.40	226839.31
78	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
78.1	1 or 2 Module (75mmX75mm)	5.00	Each	316.86	1584.30
78.2	3 Module (100mmX75mm)	72.00	Each	347.70	25034.40
78.3	4 Module (125mmX75mm)	1.00	Each	364.71	364.71
78.4	6 Module (200mmX75mm)	43.00	Each	427.45	18380.35
78.5 79	8 Module Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	86.00	Each	482.74	41515.64
79.1	5/6 A switch	75.00	Each	109.52	8214.00
79.2	15/16 A switch	276.00	Each	165.87	45780.12
79.3	3 pin 5/6 A socket outlet	236.00	Each	129.72	30613.92
79.4	6 pin 15/16 A socket outlet	207.00	Each	209.47	43360.29
80	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	20.00	Each	623.09	12461.80
81	Supplying and fixing modular blanking plate on the existing modular plate &	30.00	Each	42.53	1275.90

SI.	Item Description	Quantity	Units	Estimated	
No.				Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	switch box excluding modular plate as required.				
82	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	13.00	Each	392.36	5100.68
83	Supplying and drawing of 1 run of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.	268.00	Metre	60.61	16243.48
84	Supplying and fixing of 20mm sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	134.00	Metre	136.10	18237.40
85	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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 without MCB/RCCB/Isolator)				
85.1	4 way (4 + 12), Double doo	1.00	Each	4349.96	4349.96
85.2	8 way (4 + 24), Double door	3.00	Each	6344.71	19034.13
86	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 etc. as required.				
86.1	Single pole	84.00	each	272.20	22864.80
87	Supplying and fixing TP&N MCB,440 volts, 'C' curve, suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning & accessories etc. as required.				
87.1	32/40 A	1.00	Each	2399.00	2399.00
87.2	63 A	3.00	Each	3056.00	9168.00
88	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1.00		2022.2	2022.22
88.1	40 A	1.00	Each	3389.80	3389.80
88.2	63 A Supplying and fixing Cable End Box (Loose Wire Box) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/	3.00	Each	3053.80	9161.40

SI. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT (Inclusive of all
				(Inclusive of all taxes) in Rs. P	Taxes) in Rs. P
	recess, complete with testing and commissioning etc.as required.				
89.1	For 6 way, Double door TPN MCBDB	1.00	Each	1195.15	1195.15
89.2	For 8 way, Double door TPN MCBDB	3.00	Each	1424.82	4274.46
90	Dismembering and reinstallation of existing 1200 mm sweep ceiling fan with providing and fixing of fan clamp (D type) for hanging as required.of existing ceiling fan and with fan clamp as required.	11.00	Each	366.00	4026.00
91	Dismembering and reinstallation of existing 1200 mm sweep ceiling fan as required.	26.00	Each	253.00	6578.00
92	Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	1.00	Each	2753.95	2753.95
93	Supply and Installation of Exhaust fan suitable for single phase, 230 volts, 50 Hz, AC supply having RPM 1100 or better, 300 mm sweep, power input = 35W or less, Air delievery ≥ 700 CFM complete with motor, louvers/ shutters etc. as required in the existing window, includes dismembering of window glass, providing and fixing ACP panel (6mm thickness Aluminium composite panel) framing in place of glass, connection, testing, commissioning etc. as required.	1.00	Each	3079.00	3079.00
94	Supply and fixing of Recess/surface mounted LED down lighter fixture having wattage 14-18 watt, powder coated CRCA / die-cast aluminium housing, with high effiency diffuser, CCT 5700K- 6500K, CRI >80 with SDCM<5, lumens efficiency output not less than 115 lumens / watt, with EMC/EMI compliant electronic driver having PF>0.9, THD < 10%, & minimum of 3kV surge/burst protection, complete with 50000 hrs burning for lifetime with supporting data sheet LM-79 & LM-80. The LED used in the luminaire shall be only Lumileds, Nichia, Cree, osram & LGIT and hanging with necessary chain etc as required.	25.00	Each	1958.00	48950.00
95	Supply and fixing of Recess/surface mounted 1200X300mm LED fitting 30-32 watt, powder coated CRCA / die-cast aluminium housing, with high effiency diffuser, CCT 5700K- 6500K, CRI >80 with SDCM<5, lumens efficiency output not less than 115 lumens / watt, with EMC/EMI compliant electronic driver having PF>0.9, THD < 10%, & minimum	16.00	Each	5059.00	80944.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	of 3kV surge/burst protection, complete with 50000 hrs burning for lifetime with supporting data sheet LM-79 & LM-80. The LED used in the luminaire shall be only Lumileds, Nichia, Cree, osram & LGIT and hanging with necessary chain etc as required.				
96	Supply and fixing of Recess/surface mounted 600X600mm LED fitting 30-32 watt, powder coated CRCA / die-cast aluminium housing, with high effiency diffuser, CCT 5700K- 6500K, CRI >80 with SDCM<5, lumens efficiency output not less than 115 lumens / watt, with EMC/EMI compliant electronic driver having PF>0.9, THD < 10%, & minimum of 3kV surge/burst protection, complete with 50000 hrs burning for lifetime with supporting data sheet LM-79 & LM-80. The LED used in the luminaire shall be only Lumileds, Nichia, Cree, osram & LGIT and hanging with necessary chain etc as required.	55.00	Each	5059.00	278245.00
97	Supplying and Installation of clean room recess mounted 600X600 mm, 30-34 watt LED luminaries with lumen ommission of >100 lm/W, dimming option, highly specular anodized aluminum reflectors, optical antiglare system, high effiency polycarbonate diffuser with EMC/EMI compliant electronic driver having PF>0.9, THD < 10%, & minimum of 3kV surge/burst protection, complete with 50000 hrs burning for lifetime with supporting data sheet LM-79 & LM-80. Luminaries cover should be made of highly resistant, disinfectant proof laminated, safety glass/acrylic with stylish fine-grained surface. The reflectors should be of high quality, cleanable and non-deteriorating. The Recess frames should be gas tight. The white luminaries body should be made of sheet steel, perfectly powder coated, supplied ready for connection optionally for individual or series circuit with digital electronic control gear in multilamp technology. The Light fitting should be flush with the ceiling and should be removable from top or bottom. Optional pre-set color temperatures or adjust to any CCT in the Productivity Range 3000 K – 5700 K, Dimming Range 10%-100% The LED used in the luminaire shall be only Lumileds, Nichia, Cree, osram & LGIT and hanging with necessary chain etc as required.	8.00	Each	18441.00	147528.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
98	Supply, Installation, Testing and Commissioning of 400 mm sweep, Wall mounted fan having 3 nos. blades, copper winding, Air delivery minimum 65 CMM, 1320 RPM or better including all remaining accessories suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	5.00	Each	3235.00	16175.00
99	Supply and Installation of 10 litre capacity Water Geysers in required location.* 10 liter capacity* Temperature Range:- 25-70°C or better* Wattage:- 2KW or less* 5 star rating* suitable for single phase, 230 volts, 50 Hz, AC supply	1.00	Each	11698.56	11698.56
100	Providing and Laying conductive copper grid laid underneath the PVC sheet, supported by liquid epoxy compounds allowed to set as a uniform and level surface. The copperstrips to be made Visible by grinding and no copper strip should project more than0.Smm above level surface to avoid damage to the PVC sheet One earthing leadshould be brought out from every 150sq.ft area and attaching it to the mainearthing strip/ground Copper grounding strips (0.05 mm thick, 50 mm width) should be laid flat on thefloor in the conductive adhesive and connected to copper strip of grounding. The connection from copper grid should be brought out uniformly at places to formequipotential grid. Flooring should be mechanically shock proof, scratch proof, flame retardant ommissmicrobial.	93.67	Sqm	80.63	7552.61
101	Supplying and Installation of 60 mm thick hermetically sealed single sliding door of 2.1 m (H) x 1.0m (W). The controller should be capable of being operated by elbow switches/ foot switches as well as touch less sensor. The track should be of Stainless steel/ Aluminum and the running surface for the top rollers should be suitably angled to reduce resistance to movement. The door material should be of HPL colour should match the interior and care should be taken to make the leaf strong and light weight. The door leaf should be hung by means of hard plastic rollers of high quality with double bearing at the top. Rollers should be provided under the stainless steel/ Aluminum track to enable smooth and noiseless movement. Opening and closing of the door should be microprocessor controlled electromechanical movement. One should be able to open and close the door effortlessly in case of failure of automatic mechanism. Door opening handle should be of SS (gloss finish), i/c high quality cylindrical lock. Door leaf should have high quality synthetic rubber gasket with long life to ensure hermetic sealing, Air tightness 99.99% at a pressure of	1.00	each	498064.00	498064.00

SI. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT
				(Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
	100Kpa. The finished floor on either side of the door should be perfectly level (maximum permissible difference +1mm). The overall thickness of the finished door should be of 60mm. The inner part of the door should be filled with CFC free polyurethane foam. (Sealed airtight to prevent further ingress of any microbial organism). The door and controls should comply with IEE regulation. All motors used should be DC brushless/ AC motors with essential isolation from mains. Door should be Lead-lined (minimum 2 mm thick) in compliance with AERB guidelines for Radiation safety for use of C-Arm (ommissioni machine). All motors used should be DC brushless motors with ommissio isolation from mains. Door should be with vision window 300 mm x 300 mm with double glazed panels. Vision Window should be made of Lead-lined glass (minimum 2 mm thick lead equivalent) in compliance with AERB guidelines for Radiation safety for use of C-Arm (ommissioni machine). Noise level should not exceed 60 db. The starting time after receiving the signal ommis be adjustable between 0.5 to 20 seconds. The complete door assembly should be BIS/European CE marked/ US FDA approved. Test certificate for hermetically sealed door frame (factory test certificate) should be enclosed with the pre dispatch documents. Agency has to provide 3 year of OEM warranty for the product.				
102	Supplying and Installation of 60 mm thick hermetically sealed single sliding door of 2.1 m (H) x 1.8 m (W). The controller should be capable of being operated by elbow switches/ foot switches as well as touch less sensor. The track should be of Stainless steel/ Aluminum and the running surface for the top rollers should be suitably angled to reduce resistance to movement. The door material should be of HPL colour should match the interior and care should be taken to make the leaf strong and light weight. The door leaf should be hung by means of hard plastic rollers of high quality with double bearing at the top. Rollers should be provided under the stainless steel/ Aluminum track to enable smooth and noiseless movement. Opening and closing of the door should be microprocessor controlled electromechanical movement. One should be able to open and close the door effortlessly in case of failure of automatic mechanism. Door opening handle should be of SS (gloss finish), i/c high quality cylindrical lock. Door leaf should have high quality synthetic rubber gasket with long life to ensure hermetic sealing, Air tightness 99.99% at a pressure of 100Kpa. The finished floor on either side of the door should be perfectly level (maximum	3.00	Each	527362.00	1582086.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	permissible difference +1mm). The overall thickness of the finished door should be of 60mm. The inner part of the door should be filled with CFC free polyurethane foam. (Sealed airtight to prevent further ingress of any microbial organism). The door and controls should comply with IEE regulation. All motors used should be DC brushless/AC motors with essential isolation from mains. Door should be Lead-lined (minimum 2 mm thick) in compliance with AERB guidelines for Radiation safety for use of C-Arm (ommissioni machine). All motors used should be DC brushless motors with ommissio isolation from mains. Door should be with vision window 300 mm x 300 mm with double glazed panels. Vision Window should be made of Lead-lined glass (minimum 2 mm thick lead equivalent) in compliance with AERB guidelines for Radiation safety for use of C-Arm (ommissioni machine). Noise level should not exceed 60 db. The starting time after receiving the signal ommis be adjustable between 0.5 to 20 seconds. The complete door assembly should be BIS/European CE marked/US FDA approved. Test certificate for hermetically sealed door frame (factory test certificate) should be enclosed with the pre dispatch documents. Agency has to provide 3 year of OEM warranty for the product.				
103	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required	3.00	Each	14713.95	44141.85
104	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	105.00	Metre	1033.53	108520.65
105	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.	4.04	CUM	177.50	717.10
106	Supplying, installation, testing and commissioning of M.V. cubical type totally enclosed dust and vermin proof Main Distribution Boards suitable for use on 430 V 3 phase 4 wire 50 Hz AC	1.00	Each	156684.00	156684.00

SI. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT
				(Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
	supply, having compartmentalized construction for different incoming/outgoing MCCBs from Approved Make, and separate bus bar & cable alleys, fabricated from 2 mm thick CRCA sheet steel of uniform width complete with copper bus bars, MV danger notice plate, Digital type ammeter with Ammeter selector switch, voltmeter with Voltmeter selector switch, LED indicating lamps, Interconnection with suitable capacity copper strips / rods, connection of incoming and outgoing cables with thimbles, smoke/Siemens grey colour stove ommissi 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. INCOMER01 nos. 200amps 25kA TPNL MCCB from Approved Make Thermomagnetic release type with rotary handle.01 nos. Digital type single function volt meter to show0-500V voltage with phase selector switch01 nos. Digital type single function ommiss to show amperage with phase selector switch03 Nos CTs 125/5 ratio03 LED Indication Light with toggle switchesB. OUTGOING05 nos. 40A/63A TPNL MCCB (25 KA) Thermo-magnetic release type with rotary handle.				
107	Supply & laying of XLPE Insulated cable 4 core x 25 sq.mm Copper cable with proper clampling/Conduiting as required along with complete gland & termination with lugs and as per direction of Engineer Incharge.	35.00	Metre	1667.00	58345.00
108	Supply & laying of XLPE Insulated cable 4 core x 70 sq.mm Copper cable with proper clampling/Conduiting as required along with complete gland & termination with lugs and as per direction of Engineer Incharge.	55.00	Metre	4679.00	257345.00
109	Supply & Installation of 3 pin 20/25 ampere Top for indoor ac system as per approval of Engineer incharge.	13.00	Each	134.00	1742.00
110	Providing and fixing 4.00 mm dia. Copper wire on surface or in recess for loop earthing as required.	50.00	Meter	164.81	8240.50
111	Supply and ITC of 4 nos set of Bullet type Camera 2 MP 8 port NVR along with 8 port POE Switch having 2 TB surveillancewith interconnection with the Desk Top etc,as required and direction of Engineer In charge.	4.00	Set	39885.00	159540.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
112	Supply and Installation of Backside LED Light Strip Golden LETTER – BLUE ACP BOARD – 8 FT X 3 FT as per design approved by the Engineer- in-charge.	2.00	Each	31354.00	62708.00
113	Supply and Installation of Digital Signages Board 4 FT X 2.5 FT as per design approved by the Engineer-incharge.	13.00	Each	22776.00	296088.00
114	Supply and Installation of Glow Sign Transparent Acrylic signages 100 X 18 CM having 3 mm thick acrylic with laser round cut, Transparent acrylic border etc. as per design approved by the Engineer-in-charge.	20.00	Each	5061.00	101220.00
115	Supply and Installation of LED ACP Sign Board 8 FT X 3 FT with 8 mm thick acrylic, embossed 5mm depth, Back panel madeup of 0.8 mm GI sheet (pre coated white), 3mm acrylic sheet inside (reverse letter AIIMS Raipur) etc. as per design approved by the Engineer-in-charge.	3.00	Each	94746.00	284238.00
116	Supply and Installation of Transparent Acrylic 3 FT X 1.5 FT having 3 mm thick acrylic with laser round cut, Transparent acrylic border etc. as per design approved by the Engineer-in-charge.	8.00	Each	2562.00	20496.00
117	Supply and Installation of VHA wireless desktop microphone suitable for General PA system, RF Output Power-10mW (Max.),Modulation Mode- FM,Microphone Element-Condenser, Cardioid,Maximum Deviation-±18kHz,Frequency Response-100Hz-12kHz, Power Requirement-2×1.5V Pencil Cells,Current Consumption-<40mA,Controls-ON/OFF Switch,Indication-Red Ring LED in the gooseneck, Frequency Stability-±0.005%,Audio Output-0-50mV adjustable,S/N Ratio->90dB,Distortion-<0.5%,Antenna Type-Telescopic, Power Requirement-220V-240V AC 50Hz for AC adaptor(supplied alongwith)Controls-Power Switch, Output Volume Contro,	2.00	Each	6400.00	12800.00
AC &	R work			l	
118	Supply, Installation, Testing & Commissioning of 28 HP modular type variable refrigerant flow / Variable regrigerant Volume air cooled outdoor units suitable for cooling and heating having all hermatically sealed inverter type scroll compressor, minimum two compressor for above 14 HP modules,	1.00	Each	488713.95	488713.95

SI.	Item Description	Quantity	Units	Estimated	
No.	nom Bosonphon	quantity	Omio	Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	microprocessor based controller, top discharge type condensing units, with R410 A refrigerant, Vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI conditions and work even at 50 degree Celcius ambient temperature without tripping. The unit shall be suitable to work on 400+/-10%, 3phase, 50 Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required with suitable communication cable. The COP at AHRI Conditions shall not be less than 3.1 and IEER not less than 6.5. System should be compatible to the central control panel.				
119	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. as per approval of Engineer Incharge. Suitable for ommissio on single phase 230+/- 10%, 50 Hz Ac Supply, Complete as required. The cooling capacity of indoor unit will be at air inlet conditions of 27 degree celcius DB and 19 27 degree celcius WB Temperature.				
119.1	3.2 TR	3.00	Each	34862.42	104587.26
119.2	2 TR	7.00	Each	32750.70	229254.90
120	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-				
121	6.4mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	60.00	Metre	260.51	15630.60
122	9.5mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	60.00	Metre	351.95	21117.00
123	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick	50.00	Metre	495.50	24775.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	insulation of nitrile rubber				
124	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	60.00	Metre	625.22	37513.20
125	19 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	30.00	Metre	751.75	22552.50
126	22.2 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	20.00	Metre	919.75	18395.00
127	25.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation of nitrile rubber	50.00	Metre	1086.69	54334.50
128	28.6 mm dia (OD) (Soft drawn) with tube thickness 1.6 mm with 19 mm thick insulation of nitrile rubber	30.00	Metre	1178.14	35344.20
129	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.				
129.1	32 mm nominal dia.	50.00	Metre	551.59	27579.50
129.2	25 mm nominal dia.	30.00	Metre	426.97	12809.10
130	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	80.00	Kg	133.70	10696.00
131	Supplying, fixing, testing, commissioning of supply air grill of powder coated aluminium with volume control dampers with anti smudge ring & removable core.	2.00	Sqmt	9681.35	19362.70
132	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	2.00	Sqmt	6284.10	12568.20
133	Supply and fixing of insulation work with 6 mm nitrile rubber on CPVC drain pipe properly as required.	80.00	Metre	201.00	16080.00
134	Supplying, Fixing, testing and ommissioning of 1000 CFM Treated Fresh air unit 5.5 Ton (Outdoor unit Plus Indoor Unit) DX Type .Fresh air unit is provided with primary filters & Fine Filter With Suitable UVGI ,Extruded aluminium hollow profile,double skin panel with thickness 25 mm thick panel consisting of pre plasticized G.I casing of thickness 0.8 mm outside layer and 0.8 inside layer with polyurethane foam/puff insulation	1.00	Each	351574.00	351574.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of	TOTAL AMOUNT (Inclusive of all
				all taxes) in	Taxes) in Rs. P
	factory injected between them by injection moulding machine ,complete				
	with blower section with suitable static pressure as required and free from				
	CFC/HFC, Puff are used, base frame of				
	heavy G.I Channel of minimum 1.4 mm lifiting holes for handling. The unit shall				
	be filled with first charge of the				
	refrigerant and ready for use as required with suitable communication cable. The				
	fans are dynamically and statically balanced, for blower and motor common				
	base frame provided, induction motor				
	with TEFC squirrel case,50/60 cycle,3 phase /1 phase ac supply with necessary				
	vibration pad /arrangements etc. as per				
	specification. Supply, Installation,Testing and				
	Commissioning of inline fan with 1500 CFM exhaust air having powder coated				
	steel housing, powder coated aluminium				
	impeller, powder coated rotor, with IP 55 protection, "F"class insulation,themally				
	protected at 145°C ,Maintenance free ball	4.00			
135	bearing ,permissible ambient temperature 0 to 60°C ,High voltage test according to	1.00	Each	146489.00	146489.00
	IS 3588-1987, fan balancing 6.3 grade as				
	recommended by IS 1940-1-2003, counter clockwise direction, casing & Suitable				
	UVGI with low noise level below 60 db with all accessories require to				
	installation are included in this.				
	Supply, Installation, Balancing and commissioning of fabricated at site				
	Aluminium Rectangular/ Round ducting				
135.1	complete with neoprene rubber gasket, elbows, Spitter dampers, Vanes, hangers,				
	supports etc. as per approved drawing and specifications of following sheet				
	thickness complete as required.				
136	0.80 MM Aluminium Ducting	180.00	Sqmt	2062.00	371160.00
	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				
137	after applying suitable adhesive for Nitrile	180	Sqmt	752.82	135507.60
	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. Supplying, laying, fixing, testing and				
	commissioning of following thickness closed cell elastometric nitrile rubber of				
138	minimum 45 Kg / cu m density, thermal				
130	conductivity 0.037 W/MK or better at 20 deg mean temperature applied by				
	suiatable adhesive with resin cloth and				
	after this star bond layer thick layer				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	applied . as per specifications and as required complete in all respect as per approval of Engineer Incharge AIIMS Raipur.				
138.1	32 mm on existing pipeline	50.00	Sqmt	2198.03	109901.50
139	Supplying ,Fixing, testing and ommissioning 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.				
139.1	Fire Damper	7.00	Sqmt	11333.71	79335.97
139.2	Actuator	3.00	Each	10577.71	31733.13
140	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/m³, 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.	60.00	Sqmt	752.82	45169.20
Fire f	ighting & RO water cooler			<u> </u>	
141	Supply and fixing of 4 kg clean agent (HCFC) portable fire extinguisher having pressure guage indicator and arrangement for wall hanging and with warranty for 5 years on complete product.	8.00	Each	44203.00	353624.00
142	Supply and fixing of 6 kg clean agent (HCFC) modular type ceiling mounted fire extinguisher along with all accessories required for fixing at true ceiling and with warranty for 5 years on complete product.	12.00	Each	62462.00	749544.00
143	Dismentalling of sprinkler pipeline and sprinkler and blocking the water inlet of sprinkler without any damage as per requirement and as per instruction from Engineer In-charge. Supplying, installation, testing &	1.00	Job	13946.00	13946.00
144	commissioning sector panel suitable for following zones, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	standard facilities as per IS:2189 with mimic diagram for all area/zone covered along with battery arrangement for power backup complete with all connections, interconnections as required.				
144.1	4 Zone	1.00	Each	9427.22	9427.22
145	Supplying, installation, testing & commissioning of smokedetector with builtin LED and mounting base complete with all connections etc. as required.	22.00	Each	1225.98	26971.56
146	Supplying, installation, testing & commissioning of manual call boxes of MS construction in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc. as required.	2.00	Each	504.00	1008.00
147	Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.	22.00	Each	208.41	4585.02
148	Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in M.S. box (16 SWG) with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.	2.00	Each	592.26	1184.52
149	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	300.00	Metre	183.95	55185.00
150	Providing and fixing "you are here" sign board near entrance and fire reflective sign board, reflective stickers signage for indication at fire doors, fire extinguisher, fire exit with suitable size as per requirement and as per instruction from Engineer Incharge.	1.00	Job	28171.00	28171.00
151	Providing and fixing of RO system 250 LPH micron filter1 nos, carbon filter 1 nos, pump 1/2 HP 1 nos, Digital panel 1 nos, SV, RO membrane, HPP 1 nos, Rota meter 2 nos, Pressure guage 1 nos, storage tank with stand 500 litre, automatic switch, pressure booster pump 1 HP with complete installation along	1.00	Each	302838.00	302838.00

with plumbing materials CPVC and with one year all parts warranty. Providing and fixing of dispensor potable water purification system with inbuilt watercooler having Normal, hot & cold water arrangement and 3 stages of purification and type of UV water consumptions of system 300 watt (with +5% tolerance) and maximum 1000 input water TDS allow to the system and having operation of fully automatic with auto cutoff mode with one year all parts warranty. Providing and fixing of Stainless steel watercooler with inbuilt RO & UV filter system having 50 litre storage capacity, body material of SS304, refingerent gas R134a, evaporator material of pure copper, having cooling capacity of 25 Litre per hour, purification capacity 20 litre per nour, purification, carbon block purification, reverse osmosis membrane purification, UV purification system with one year all parts warranty. Providing and fixing of 15 litre drinking water purification containing sediment purification, under the purification containing sediment purification, under the purification containing sediment purification, which copper condensor material, body material ASS grade plastic, having auto flushing system, purification, carbon block purification, carbon block purification, carbon block purification, crebon block purification, creb	CI	Harra Danaminstin	Ourantite		Est'ment 1	
one year all parts warranty. Providing and fixing of dispensor potable water purification system with inbuilt watercooler having Normal, hot & cold water arrangement and 3 stages of purification and type of UV water purification and type of UV water purification technology and power consumptions of system 300 watt (with + 5% tolerance) and maximum 1000 input water TDS allow to the system and having operation of fully automatic with auto cutoff mode with one year all parts warranty. Providing and fixing of Stainless steel watercooler with inbuilt KO & UV filter system having 50 litre storage capacity, body material of S3304, refrigerent gas R134a, evaporator material of pure copper, having cooling capacity of 25 Litre per hour, purification capacity 20 litre per mun, having stages of purification containing sediment purification, carbon block purification, reverse osmosis membrane purification. IV purification system with one year all parts warranty. Providing and fixing of 15 litre drinking water purification system with water filter type R0 and UV both, copper condensor material, body material AlS5 grade plastic, having auto flushing system, purification capacity 15 litre per hour with maximum flow rate 5 litre per min, having stages of purification containing sediment purification, experse osmosis membrane purification, cup purification purification, experse osmosis membrane purification, to purification system with one year all parts warranty. MGPS & related work Supplying, laying, lesting and commissioning of the physical properties & chemical composition. Degraces decembered capped at accompanied with Manufactured Test certificate for the physical properties & chemical composition. Degraces and buckness of copper pipes almost sea and thickness of copper pipes (Lubes size and thickness of copper pipes (Lubes size and thickness of copper pipes (Lubes size and thickness of copper pipes		·	Quantity	Units	Rate (Inclusive of all taxes) in	
water purification system with inbuilt watercooler having Normal, hot & cold water arrangement and 3 stages of purification and type of UV water purification and type of UV water purification technology and power consumptions of system 300 wat t (with +- 5% tolerance) and maximum 1000 input water TDS allow to the system and having operation of fully automatic with auto cutoff mode with one year all parts warranty. Providing and fixing of Stainless steel watercooler with inbuilt RO & UV filter system having 50 litre storage capacity, body material of SS304, refrigerent gas R134a, evaporator material of pure copper, having cooling capacity of 25 litre per hour, purification capacity 20 litre per min, having stages of purification containing sediment purification, carbon block purification, reverse osmosis membrane purification, reverse osmosis membrane purification, carbon block purification system with water filter type RO and UV both, copper condensor material, body material Alts grade plastic, having auto flushing system, purification and the stage of purification containing sediment purification, carbon block purification or purification containing sediment purification, which is staged plastic, having auto flushing system, purification, carbon block purification, carbon block purification, corbon block purification, carbon block purification, corbon block purification, corbon block purification, corbon block purification, carbon block purification, carbon block purification, carbon block purification, corbon block purification, to carbon block purification, to carbo						
watercooler with inbuilt RO & UV filter system having 50 litre storage capacity, body material of SS304, refrigerent gas R134a, evaporator material of pure copper, having cooling capacity 0 25 Litre per hour, purification capacity 20 litre per hour, purification capacity 20 litre per hour with maximum flow rate 20 litre per min, having stages of purification containing sediment purification, carbon block purification, reverse osmosis membrane purification, UV purification system with one year all parts warranty. Providing and fixing of 15 litre drinking water purification system with water filter type RO and UV both, copper condensor material, body material ABS grade plastic, having auto flushing system, purification capacity 15 litre per hour with maximum flow rate 5 litre per min, having stages of purification containing sediment purification, carbon block purification, reverse osmosis membrane purification, UV purification system with one year all parts warranty. MGPS & related work Supplying, Laying, testing and commissioning of Medical grade copper pipe as per BS EN:13348:2016 standards. It should be solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased delivered capped at both ends. The Copper pipes should be medical grade degreased delivered capped at both ends. The Copper pipes should be medical grade degreased delivered capped at both ends. The Copper pipes should be medical grade degreased delivered capped at both ends. The Copper pipes should be accompanied with Manufactured Test certificate for the physical properties & chemical composition. 155 155 156 157 158 159 159 159 159 159 159 150 150	152	water purification system with inbuilt watercooler having Normal, hot & cold water arrangement and 3 stages of purification and type of UV water purification technology and power consumptions of system 300 watt (with +- 5% tolerance) and maximum 1000 input water TDS allow to the system and having operation of fully automatic with auto cutoff mode with one year all parts	2.00	Each	54910.00	109820.00
Providing and fixing of 15 litre drinking water purification system with water filter type RO and UV both, copper condensor material, body material ABS grade plastic, having auto flushing system, purification capacity 15 litre per hour with maximum flow rate 5 litre per min, having stages of purification containing sediment purification, carbon block purification, UV purification system with one year all parts warranty. MGPS & related work Supplying, Laying, testing and commisioning of Medical grade copper pipe as per BS EN:13348:2016 standards. It should be solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe should be medical grade degreased copper pipe should be medical grade degreased &delivered capped at both ends. The Copper pipes should be accompanied with Manufactured Test certificate for the physical properties & chemical composition. Degreasing of pipe shall be such that there is less than 20mg/m2 (0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS EN:13348:2016. Copper pipes must be inspected and duly Third Party Certified by (Lloyd's Registered Asia) BSI KTE Marked & CE Marked Copper pipes/tubes size and thickness of copper pipes 28mm Outer Diameter x 1mm thickness 15mm Outer Diameter x 1mm thickness 12mm Outer Diameter x 1 mm thickness 15mm Outer Diameter x 1 min thickness 15mm O	153	watercooler with inbuilt RO & UV filter system having 50 litre storage capacity, body material of SS304, refrigerent gas R134a, evaporator material of pure copper, having cooling capacity of 25 Litre per hour, purification capacity 20 litre per hour with maximum flow rate 20 litre per min, having stages of purification containing sediment purification, carbon block purification, reverse osmosis membrane purification, UV purification	1.00	Each	71824.00	71824.00
Supplying, Laying, testing and commisioning of Medical grade copper pipe as per BS EN:13348:2016 standards. It should be solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe confirming to the standard. All copper pipes should be medical grade degreased &delivered capped at both ends. The Copper pipes should be accompanied with Manufactured Test certificate for the physical properties & chemical composition. Degreasing of pipe shall be such that there is less than 20mg/m2 (0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS EN:13348:2016.Copper pipes must be inspected and duly Third Party Certified by (Lloyd's Registered Asia).BSI KITE Marked & CE Marked Copper pipes/tubes size and thickness of copper pipes 28mm Outer Diameter x 1mm thickness 15mm Outer Diameter x 1mm thickness 15mm Outer Diameter x 1mm thickness Pipeline Installation: Before erection, all copper pipes, fittings like bends, tees, reducers etc. should be		Providing and fixing of 15 litre drinking water purification system with water filter type RO and UV both, copper condensor material, body material ABS grade plastic, having auto flushing system, purification capacity 15 litre per hour with maximum flow rate 5 litre per min, having stages of purification containing sediment purification, carbon block purification, reverse osmosis membrane purification, UV purification system with one year all parts warranty.	3.00	Each	22255.00	66765.00
Medical grade copper pipe as per BS EN:13348:2016 standards. It should be solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe confirming to the standard. All copper pipes should be medical grade degreased &delivered capped at both ends. The Copper pipes should be accompanied with Manufactured Test certificate for the physical properties & chemical composition. Degreasing of pipe shall be such that there is less than 20mg/m2 (0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS EN:13348:2016.Copper pipes must be inspected and duly Third Party Certified by (Lloyd's Registered Asia).BSI KITE Marked & CE Marked Copper pipes/tubes size and thickness of copper pipes 28mm Outer Diameter x 1mm thickness 22mm Outer Diameter x 1mm thickness 15mm Outer Diameter x 1mm thickness 15mm Outer Diameter x 1mm thickness Pipeline Installation: Before erection, all copper pipes, fittings like bends, tees, reducers etc. should be	MGPS	& related work				
	155	Medical grade copper pipe as per BS EN:13348:2016 standards. It should be solid drawn, seamless, deoxidized, non-arsenical, half hard, tempered and degreased copper pipe confirming to the standard. All copper pipes should be medical grade degreased &delivered capped at both ends. The Copper pipes should be accompanied with Manufactured Test certificate for the physical properties & chemical composition. Degreasing of pipe shall be such that there is less than 20mg/m2 (0.002mg/cm2) of hydrocarbons on the degreased surface when tested by the method specified BS EN:13348:2016.Copper pipes must be inspected and duly Third Party Certified by (Lloyd's Registered Asia).BSI KITE Marked & CE Marked Copper pipes/tubes size and thickness of copper pipes 28mm Outer Diameter x 1mm thickness 22mm Outer Diameter x 1mm thickness 15mm Outer Diameter x 1mm thickness Pipeline Installation: Before erection, all copper pipes,				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	pipe cutters and bending machine should be used during installation of Copper pipes. All copper fittings like bends, Tees, reducers and straight couplings should be of same make as of copper pipes. Copper pipes and copper fittings must be manufactured by same manufacturing company. Each copper fitting of size 42mm or above should be individually packed. Brazing of pipe joined by silver brazing method for copper to copper. Inert gas welding technique should be used by passing Nitrogen gas inside the copper pipes during silver brazing, in order to avoid carbon deposition inside the copper pipes. All the installed pipes and joints must be leakage test with nitrogen gas for 24 hours before fixing of gas outlet and paint. Copper pipes of the diameter up to 42mm OD Should be installed on the wall with the help of plastic saddles at the required span, as per HTM-0201 and metallic white powder coated clamps Should be used for pipe sizes above 54mm OD. Wherever the pipes cross brick walls, it should be covered with plastic pipes. All pipes should be installed without springing or forcing. All pipes should be protected against mechanical injury in a manner satisfactory to authorities having jurisdiction. Test: After erection, all the pipes should be cleaned or purged with the help of dry nitrogen gas, &should be tested with dry nitrogen at a pressure of 10 Bar for 48 hours. Painting: All installed pipes should be painted with two coats of synthetic enamel paint & colour codification as per HTM standards				
155.1	OD 15mm	300.00	Meter	1032.50	309750.00
155.2	OD 22mm	250.00	Meter	1250.80	312700.00
155.3	OD 28mm	600.00	Meter	1427.80	856680.00
156	Supply, installation, testing and commisioning of Gas Terminal Outlets (Gas Outlets) with probes/Adaptors for Oxygen, Nitrous Oxide, Compressed Air 4, Medical Air 7, Vacuum & CO2 etc. The Medical gas outlets shall confirm to HTM 02-01 / NFPA 99C Standards. It should be US FDA / European CE Certified with 4 digit notified body number or ETL Listed/UTL Listed/BIS certified. Front Loading Type Terminal Outlets should bedesigned to dispense medical gases (or an inlet for medical vacuum) to the secondary equipment(flowmeters, Suction regulators, etc.) at the point of use and is gas specific so that secondary devicescannotbe attached to the wronggas. When not in use the gas in a non-flowing state within the Outlet (Terminal unit) sealed by "O" ring. The adapter when inserted pushes the poppet inside and the gas starts flowing and sealing is ensured by the "O" ring or aseat. The Outlets are Quick Connect Type and gas specificity is accomplished by "Pin indexing." The outlets should have following features: Push to insert and twist-to-release mechanism forprobes. Allows plugging of probes fromfront. Self-sealing valve on disengaging the probe (Quickdisconnect) Smooth quiteaction. Non return valve for on line servicing/repairing Indexed to eliminate inter-changeability of gasservices Color-coded gas specific frontplate Totally leak proof, safe & easy tooperate Configurations possible:				

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	surface, flush &Bead-head.• Outlet should be European CE certified or American ULlisted• All outlets should have respective labels (i.e.O2/N2O/CO2/Air4/Air7/Vacuum/ AGSS/etc.)				
156.1	Oxygen Gas	33.00	Each	6903.00	227799.00
156.2	Medical Air-4	7.00	Each	6903.00	48321.00
156.3	Nitrous Oxide	2.00	Each	6903.00	13806.00
156.4	Vacuum	25.00	Each	6903.00	172575.00
156.5	Carbon Di-Oxide	5.00	Each	10502.00	52510.00
157	Supply, installation, testing and commisioning of Bed Head Panel. The bed head panel size is to be 1200mm and made-up of extruded aluminum with provision of medical gas terminal outlets and attached with electrical switch sockets. Ther should be rail for support to mount necessary medical equipment upon it.	9.00	Each	28910.00	260190.00
158	Supply, installation, testing and commisioning of Double Arm Motorized Pendant provided With 2 x O2, 1 x N2O, 2 x Air 4, 2 x Vac, 1 x CO2 and 8 nos. of Electrical switch-sockets: The pendant shall comply with all relevant Hospital Technical Memoranda (HTM), Hospital Building Notes (HBN) and British Standards (BS) as well as ISO11197:2009. It shall be CE marked with the notified body number specified. It shall be provided with a copy of the certificate of origin. The system shall be provided as factory assembled modules for single or double arm configurations. The pendant frame shall be constructed from extruded aluminum alloy 6063 T6. The end caps should replicate the profile of the vertical head. The aluminum extrusions used to contrast the pendant shall be of approximate wall thickness not less than 3.5 mm. The external surfaces should be antibacterial paint which ensures 100% shied against infectious agent. The pendant lids shall be removable to allow access to the aluminum sections. Segregation shall be provided within the side sections to ensure that services are not accessible when removing the lids. The arm section should present at last two points with a minimum thickness of 170 mm in order to guarantee adequate load bearing of the complete system. The arms will be supplied with ABS heads with LED backlighting signaling. The pendant shall have possibility to mount directly on the body DIN rails for accessories if needed at least two joints of the arms with brakes, electromagnetic barke released. It should have 2 arms 1000mm and 900mm total 1900mm. It should have 180kgs weight bearing capacity of the arms. It should have not less than 180 kgs for 1900 mm total length double motorized arm. It should no vertical 1500mm column to mount gas outlets and electrical. It can rotate from 0 to 330 degree. The control of air brakes must be done using the holder release. All shelves and drawers shall be in acrylic material, 100% non-porous for perfect hygienic control. In case of motorized system the travel time sha	1.00	Each	1050200.00	1050200.00

SI. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT (Inclusive of all
				(Inclusive of all taxes) in Rs. P	Taxes) in Rs. P
	Classification according to the degree of protection against penetration of liquids and external agents. It should have protection provided on external power circuit which provides adequate protection with circuit breakers or fuses dimensioned accor-ding to the power indicated on the label. This shall be supplied in compliance with the 93/42/CE regulation. Pendant shall fully meet the essential requirements for emissions and immunity as defined within BS EN 60601-1-1 and ISO standards. It should have vertical pole made of stainless steel with support of aluminum and IV stand with 4 Hooks. It should have one Shelf BIOCLEAN made of Solid Material for ceiling pendant with handle and 2xDIN rails (L530xW460mm) (capacity load 40Kg). It should have Electromagetic Brakes with LED barke lightsü 900-1000mm single column lengthü Double Arm Anaesthesia pendant. The head of the pendant should move the machine up & down.ü The weight carrying capacity of the arm should not be less than 180 KG.ü Each arm should be capable of 330 degrees of rotation, which can be easily adjusted to suit the desired mode of operation.ü Should have breaklight indicator LEDs. Each pendant should have: Pre piped 10nos. HTM02-01 standards complies BS gas outlets points with NIST connection. Terrminal units shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal unit socket die-casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheerplane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate an integral check valve to enable servicing of the second fix and valve seals w				
	matching fascia. The mounting box shall have smooth rounded corners to avoid the possibility of injury. A bezel shall be available to cover the plaster edge, provide a neat and easily to clean finish.				
159	Supply, installation, testing and commisioning of Area Valve Box including Valve. It should fully complies and meets with the requirements of the Health Technical Memorandum 02-01 (HTM 02-01) standards only. It should have NIST Connection & Single Service for Vacuum with NIST Connection. It should be made up of Aluminium extrusion profiles with aluminium alloy 6063 temper T6. It should be manufactured from Virgin Aluminium' no				

SI. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT
				(Inclusive of all taxes) in Rs. P	(Inclusive of all Taxes) in Rs. P
159.1 159.2	scrap added in aluminium). All sections are anodized aluminium except top plate. he top plate will be aluminium powder coating (high quality). The Area Valve Service Unit (AVSU) should incorporate a ball value with NIST connectors either side, mounted in a lockable box with emergency access. The value should be complete with copper stub pipes that extend to the outside of the box to enable easy connections to the Medical Gas Pipeline System (MGPS). Area Valve Box 4 Gas service Supply, installation, testing and commisioning of Medical Gas Area Alarm 5 Services It	1.00 1.00	Each Each	12154.00 15576.00	12154.00 15576.00
160	of Medical Gas Area Alarm 5 Services.It should complies with HTM02-01/NFPA99C Standards.It should be USFDA/European CE Certified with 4 digit notified body number or ETL Listed/UTL Listed.The LCD alarm shall be microprocessor based with a 10" (25.4 cm) screen and capable of monitoring medical gases. Each gas service shall be provided with a digital read-out comprising of 0-249 psi (0-1,717 kPa) for pressure and 0-30"Hg (-100-0 kPa) for vacuum.The digital read-out shall provide a constant indication of each gas being measured, indicating a green "NORMAL" and a red "HIGH" or "LOW" alarm condition. If an alarm occurs, the green indicator will change to red and a continuous audible alarm will sound. Pushing the (mute button/push to test button) will cancel the audible alarm, but the unit will remain in the alarm condition until the problem isrectified. The box mounting brackets shall be adjustable to accommodate for different wall thickness. LCD alarm on a computer screen via the facility's ethernet or internet. In addition, an exact image of the alarm can be displayed on a mobile device. The LCD Alarm will update its status every second. It should have self-diagnostic and error message display for ease of maintenance. It shall have sensor, that mounted locally (in the rough-in box) by installing the copper pipe provided or mounted remotely. Sensors will be automated for gas specific detection. Each sensor unit is gasspecific, with an error message display for an incorrect connection. Each sensor unit is gas specific, with an error message display for an incorrect connection.	1.00	Each	184080.00	184080.00
161	of 32" HD monitor with Monitor Arm. It should be 32" High Definition Progressive Scan Flat-panel Medical Grade Monitors with ceiling mounted spring arm suspension to support high definition/HDTV progressive Scan images and should be able to support and display DVI/HDTV, RGBHV, S-Video, Composite video signals. Aspect ratio16:9/16:10. Resolution 1920X1080 or	3.00	Each	814200.00	2442600.00

SI.	Item Description	Quantity	Units	Estimated	
No.				Rate (Inclusive of	(Inclusive of all
				all taxes) in	Taxes) in Rs. P
	better. The flat Panel suspension should be				
	ready with the cables for integration of High Definition Digital(DVI/HDTV), RGBHV (High				
	Resolution), SVHS (S-Video), Composite video signals to travel from the various sources of				
	video like endoscopic camera, room camera, in				
	light camera, high definition flat panel				
	monitors, while assuring native resolution / signal. Monitor should capable of displaying				
	from other sources like endoscope, microscope				
	etc. necessary provision should be provided as standard. It should be Medical Grade Class-1				
	Device and European CE Declaration of Conformity to be provided. 1 SDI Input Signal				
	and 2 SDI Output Signal in all Monitors. It is				
	mandatory to provide YPbPr to SDI Converter and 1SDI input to 2 SDI output Converter. HD				
	Flat Panel Monitor should be done according				
	to IP 54 regulations. ESG Safety Glass Cover				
	is must to protect the Monitor Screen from breakage and for additional Safety of Patient.				
	For optimizing the quality of Pictures, it should have DicomPreset, BT 709, BT 1886				
	features. Video Connectors on the back side of				
	Monitor is to be hide by Cover of Aluminum from the Back side of Monitor. Monitor should				
	be integrated by Command Bar shown in the				
	front side of Monitor. It should be USFDA / European CE Certified. Automatic Lumination				
	Stabilisation (ALS) with backlight sensor,				
	precalibrated to 300 cd/m2, or 250 cd/m2 for DICOM preset. OSD control (remote				
	configuration) GPIO (9 pin). Automatic				
	Lumination Stabilisation (ALS) with backlight sensor, precalibrated to 300 cd/m2, or 250				
	cd/m2 for DICOM preset. Backlight life				
	50,000 hours. Pixel defect class Class II (ISO 9241-307). Signal inputs 3G-SDI,				
	CVBS/FBAS, S-Video (Y/C), component				
	(YPbPr)/RGB, VGA, DisplayPort (1.2), 2 x DVI- D. Screen saver, user presets, Automatic				
	Lumination Stabilisation (ALS), picture-in-				
	picture (PIP, POP), DICOM preset, BT709, BT1886. Product safety EN 60601-				
	1:2006+A1:2013. Electromagnetic compatibility EN IEC 60601-1-2:2007.				
	Immunity EN 61000-4-2, EN 61000-4-3, EN				
	61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11. Emission EN 55011 class B,				
	IEC/CISPR 11:2009 modified, EN 61000-3-2,				
	EN 61000-3-3. WEEE Category Category 2 (display with > 100 cm2)				
	Supply and installation of SS 304 Puff				
	Panel for Ceiling and wall.				
	It should have CE compliance under Class 1 Medical devices directive. Copy of				
	valid certificate must be submitted. The				
162	30mm thck for wall & ceiling panel will be constructed using SS304 stainless steel				
	0.8mm thk sandwich panel with core				
	consisting of rigid polyurethane foam,				
	which has been injected under high pressure, with a minimum density of 40				
	kg/m3 and back side with 0.8mm PPGI				

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				Rs. P	NS. P
	sheet. The gaps between panels shall be suitably filled with metal filler/epoxy and sanded flush.				
162.1	Wall Panel	75.00	Sqmtr	12390.00	929250.00
162.2	Ceiling panel	50.00	Sqmtr	11210.00	560500.00
163	Providing and applying Antibacterial Coat Paint for SS Ceiling and Wall. Anti-bacterial and Anti-fungus fenomastic coating will be applied on the SS finished walls & ceiling with at least 2/3 coats to achieve a thickness of minimum 200 micron. It should have low VOC content to ISO 11890-2. Resistance to fungus rating-1 and bacteria growth reduction as per ISO 22196:2011. The Primer will be supplied along with the paint and will be imported. The primer will be applied prior to coating of Anti – bacterial & Anti- Fungus sterlite paint on SS walls & ceiling. Sterile coating and primer will be applied on the surface by roller/ air less spray gun. Sterile coating will be to withstand with commonly used cleaners in the operation rooms and even withstanding with regular steam cleaning.	125.00	Sqmtr	209.86	26232.50
164	Supply, installation and testing of Laminar plenum with size 2400x2400mm made of alluminium. Without HEPA filters. To be installed on the centre of SS panel false ceiling. It should be constructed out of aluminum 2mm thk sheet of size 2400 x 2600mm Light diffuser made out of two layer of mono filament precision woven polyester for the plan air ceiling to give diffused shadow less LED lighting system. The intensity of luminance by using high frequency electronic LED and dimmable Ballast. All ceilings incorporate supports to secure them to the main structural frame of the room. or structural slab. It should complies with ISO14644-1 clean room class, certifications must be submitted. It should be CE compliance under medical devices directive class-1.	1.00	Set	371700.00	371700.00
165	Supply, installation and testing of Perpheral Lights: It should be fitted outside the air ceiling system area and flush with the ceiling in the operation theatre suitable to required illumination (450-500 Lux) of OT. Peripheral lights should be LED based (Size-2ft x 2ft approx. size) and clean room luminaries fitted in the frame should be 8 in numbers for each OT. The fluorescent lamps / Non-hygroscopic high glow low power LED based peripheral	8.00	Each	25370.00	202960.00

SI. No.	Item Description	Quantity	Units	Estimated Rate (Inclusive of all taxes) in Rs. P	TOTAL AMOUNT (Inclusive of all Taxes) in Rs. P
	lights having high quality low wattage LED lighting system with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution. Luminaire cover made of highly resistant, disinfectant proof laminated safety glass with fine grained surface, glass pane with white powder coated steel frame. The light fitting should be uniformly and aesthetically distributed on the ceiling to provide uniform illumination in the OR. Peripheral lighting should be done according to IP65 protocol. Supply, installation, testing and commisioning of Medical grade HD Monitor				
166	control panel. The control panel should be touch screen panel. This control panel should work as the central control panel for the HVAC controls, instruction board, light control, gas alarms, telephone etc. Screen sized should not be less than 20-21 inches. The panel should be designed to cope with changing technology and equipment in operating environments. Control panel should be user friendly and ease of operating and maintaining purpose. It should be flush to wall touch screen application for operating theatres, protected by a glass surface that enhances its features and performance in a critical environment of an operating room, coplanar to the finish panel (with the exception of the panels with metallic finish. The medical gas alarm should indicate high and low gas pressures for each gas service present in the OT including vacuum. This should be supported by audible alarm also. The panel should have an alarm mute (fault annunciation) facility. The sensors (pressure switches) should be at the nearest isolation valve. Control for general lighting: ON/OFF and dimming controls organized in groups to provide uniform illumination. For peripheral lighting management with DALI protocol. Humidity and temperature sensor, 1 x Differential atmospheric pressure sensor for ambient. The electrical wiring untill actuator and HVAC whould be in hospital scope. It should be European CE certfied with 4 digit notified body no or UL or ETL Listed. MAke-LM Medical-Italy/Nexor-Germany/SHD-Italy/Rein Medicaly-Germany.	1.00	Each	643100.00	643100.00
Total	in Figures				2,72,61,136.00