TENDER

FOR

"Establishment of DRTB ward at AIIMS Rishikesh

SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works"

Tender No.: 06/EE/AC&R/2024-25



All India Institute of Medical Sciences Rishikesh 249202 Uttarakhand India.

Office of Superintending Engineer, AIIMS Rishikesh.

Email: - <u>eeacr@aiimsrishikesh.edu.in</u>

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Dated: - 14/12/2024

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF NIT AND TO BE UPLOADED ON WEBSITE

The Executive Engineer (AC&R), AIIMS Rishikesh on behalf of Executive director, AIIMS Rishikesh invites item rate e-tenders two bid system (eligibility criteria + price bid) from eligible Specialized agency having experience of similar works for "Establishment of DRTB ward at AIIMS Rishikesh SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works"

S n o	NIT No.	Name of work & Location	Tender Fees	Estimated cost put to bid (Rs.)	Earnest Money	Period of Complet ion	Tender filling start date.	Date & time of Pre Bid Meeting	Last date & time of submission of bid, copy of receipt of deposition of original EMD, and other document as specified in the NIT	Time & date of opening of technical bid
_1	2	3	4	5	6	7	8	9	10	11
1	06/EE/AC&R/2024-25	"Establish ment of DRTB ward at AIIMS Rishikesh SH: - Supply Installation , Testing & Commissio ning of Civil, HVAC and Electrical works"	Nil	34,98,567.0 0 /-	1,74,92 9.00	90 days	14/12/2 024	At 03:00 PM on 26/12/2 024	At 03:00 PM on 13/01/2025	At 03:00 PM 14/01/2 025

 Last date of physical submission of EMD is not applicable for the bidder who deposited EMD online in the Institute account. Bidder may deposit EMD in the following account number of the Institute: -

Account Number: 6189000100021125 Bank Name: Punjab National Bank

Branch Name: Barrage const. Div., Pashulok, Rishikesh (Dehradun)

IFSC Code: PUNB0618900

- 2. The intending bidder must read the terms and conditions of CPWD-6 form carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- **3.** This information and instructions for bidders posted on website shall form part of bid document.
- **4.** The bid document consisting of plans, specifications, 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 www.aiimsrishikesh.edu.in or https://eprocure.gov.in
- **5.** But the bid can only be submitted after deposition of original EMD in the office of Executive Engineer (AC&R) within the period of bid submission and uploading receipt for deposition of original EMD in the office of Executive Engineer and other documents as specified.
- **6.** Those contractors are not registered on the website mentioned above, are requested to get registered beforehand.

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- 7. The intending bidder must have valid class-III digital signature to submit the bid.
- **8.** On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
- **9.** All the bidder(s) should upload eligibility documents in the form of PDF only.
- **10.** Contractor must ensure to quote rate in the prescribed columns meant for quoting rate in figures.

However, if a bidder quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.

- **11.** The contractor should quote the rate of item including GST as per statutory rules.
- 12. (i) The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in table by Demand Draft/Fixed Deposit/Term Deposit in favor of "AIIMS, Rishikesh" drawn on any Nationalized Bank/ Scheduled Bank and payable at AIIMS Rishikesh and must be valid for 135 days from last date of submission of Bid (Bid validity period 90 days + 45 days beyond bid validity period). The EMD shall be scanned or uploaded to the CPP Portal website within period of bid submission. The original EMD should be deposited in the office of EXECUTIVE ENGINEER (AC&R) within due date mentioned in the NIT. EMD receiving authority shall issue receipt of deposition to the bidder in prescribed format. Bid received without Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc. at any stage.
 - (ii). Earnest Money deposited with AIIMS, Rishikesh in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.
 - (iii). The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.
 - Note: The bidder seeking EMD Exemption must submit the valid supporting document for the relevant category as per tender document. Under MSE category, only manufacturers for goods and service providers for services are eligible for exemption from EMD. Traders are excluded from the purview of this policy.
- **13.** The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder
- The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within fifteen (15) days from the date of award of this tender in his favour and also required to furnish the performance security plus security deposit @ 7.5 % of contract value in the form of Fixed Deposit/Bank Guarantee/Term Deposit from any Nationalized/Schedule bank duly pledged in favour of AIIMS, Rishikesh & payable at Rishikesh only and must remain valid for a period of 6 (Six) months beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP). The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 15 (fifteen) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited automatically without any notice to contractor and award of tender in Contractor favour automatically stands terminated at his cost & liability, unless time extension has been granted by AIIMS, Rishikesh. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance quarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licensee / registration etc.
- **15.** The bid shall be valid and open for acceptance by the competent authority of AIIMS Rishikesh

for a period of 90 (Ninety) days from the date of opening of technical bid and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the AIIMS shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the re-bidding process of the work.

- 16. List of self-attested Documents to be scanned and uploaded on the CPP portal linked with the particular tender within the period of bid submission failing which the bid of the tenderer shall be rejected.
- I. Demand Draft/ Fixed Deposit Receipt /Copy of deposit of EMD in the institute account / Bank guarantee of any scheduled bank against EMD.
- II. Copy of receipt for deposition of original EMD in the office EE (AC&R).
- Certificate of work experience along with copies of Contract Agreement/Purchase Order/Work Order and its completion certificate (As specified in Clause 1.2.1 of CPWD-6). Copy of TDS/26AS certificate is required in case the work is executed in private sector.
- IV. Average Annual Financial Turnover of the bidders during the last three years ending 31st March of the previous financial year should be at least 30% of the estimated cost, duly audited and certified by the chartered Accountant having UDIN number.
- V. The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheet, duly audited and certified by the chartered accounted having UDIN number.
- VI. Signed with company seal on each pages of NIT (& its corrigendum if any) and documents uploaded with bid.
- VII. Certificate of Registration for GST
- VIII. Copy of PAN Card

Note: -For Civil works: Bidder shall be enlisted contractor in the appropriate classes and category in CPWD (OR) bidder shall associate with any CPWD enlisted contractor of appropriate class for execution of Civil works after award of work.

- **17.** Only Authorised signatory will be permitted to sign any type of documents.
- **18.** The soft copies of documents uploaded by contractors on CPP Portal.
- **19.** If uploaded scanned documents/tender form are not downloaded successfully, due to any technical error/corrupt files then AIIMS Rishikesh will not be liable.

Note: Offer without copies of the above-mentioned documents shall be liable for summary rejection.

Govt. of India AIIMS, Rishikesh Notice Inviting e-Tender

Item rate bids are invited on behalf of Executive director, AIIMS Rishikesh invites item rate e-tenders two bid system (eligibility criteria + price bid) from eligible Specialized agency having experience of similar works i.e. Supply, Installation, Testing, commissioning of HVAC work for "Establishment of DRTB ward at AIIMS Rishikesh SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works"

1.

- 1.1. The work is estimated to Cost Rs. 34,98,567.00/-. This estimate, however, is given merely as a rough guide.
- 1.2. Intending tenderer is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

Criteria of eligibility for submission of bid documents.

1.2.1. Criteria of eligibility

Three similar works each of value not less than **Rs. 13,99,427.00/-** or two similar work each of value not less than **Rs. 20,99,140.00/-** or one similar work of value not less than **Rs. 27,98,854.00 /-** in last 7 years ending last day of the month previous to the one in which the tenders are invited.

Similar works means "Supply, Installation, Testing, commissioning of HVAC work (AHU, Ducting & insulation, electrical)".

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

- I. Demand Draft/ Fixed Deposit Receipt /Copy of deposit of EMD in the institute account / Bank guarantee of any scheduled bank against EMD.
- II. Copy of receipt for deposition of original EMD in the office EE (AC&R).
- Certificate of work experience along with copies of Contract Agreement/Purchase Order/Work Order and its completion certificate (As specified in Clause 1.2.1 of CPWD-6). Copy of TDS/26AS certificate is required in case the work is executed in private sector.
- IV. Average Annual Financial Turnover of the bidders during the last three years ending 31st March of the previous financial year should be at least 30% of the estimated cost, duly audited and certified by the chartered Accountant having UDIN number.
- V. The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheet, duly audited and certified by the chartered accounted having UDIN number.
- VI. Signed with company seal on each pages of NIT (& its corrigendum if any) and documents uploaded with bid.
- VII. Certificate of Registration for GST
- VIII. Copy of PAN Card
- 2. An Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 8 (or other standard Form as mentioned) which is available as a Govt. of India Publication and available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said

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form, which will form part of the agreement.

- 3. The time allowed for carrying out the work will be 90 days from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
- **4.** The site for the work is available.
- **5.** The bid document consisting of plans if any, specifications, 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 except Standard General Conditions of Contract Form can be seen from **website www.aiimsrishikesh.edu.in** or https://eprocure.gov.in.
- **6.** After submission of the bid, the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- **7.** While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of time (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
- **8.** Earnest Money in the form of Demand Draft/Fixed Deposit/Term Deposit (drawn in favour of AIIMS Rishikesh shall be scanned and uploaded to the e-tendering website within the period of tender submission. The original EMD should be deposited either in the office of Executive Engineer or inviting bids. The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT. This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited (as per the latest guidelines of Ministry of finance and department of expenditure) and other documents scanned and uploaded are found in order. EMD must be valid for 135 days from last date of submission of Bid (Bid validity period 90 days + 45 days beyond bid validity period).
- **9.** The Bid submitted shall become invalid and e-Tender Processing Fee shall not be refunded if:
 - (i) The bidders are found ineligible.
 - (ii) The bidders do not upload scanned copies of all the documents (including GST) as stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
 - (iv) If a tender quotes nil rates against each items in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/ sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
- 10. The contractor whose bid is accepted will be required to furnish performance security plus security deposit @ 7.5% (Seven and half percent) of the bid amount within the period specified in Schedule F and must remain valid for a period of 6 (six) months beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP). This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance quarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited (as per the latest guidelines of ministry of finance and department of expenditure) by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with the bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within

- 11. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the 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 bidder 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 and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
- 12. The competent authority on behalf of the Executive director of AIIMS Rishikesh 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 tenderer shall be summarily rejected.
- **13.** Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- **14.** The competent authority on behalf of the Executive Director of AIIMS Rishikesh reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- **15.** The contractor shall not be permitted to tender for works in AIIMS Rishikesh in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer, Executive 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 Gazetted officer in AIIMS Rishikesh. Any breach of this condition by the contractor would render him liable to reject his Bid submitted by him.
- 16. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as previously mentioned before submission of the tender or engagement in the contractor's service.
- **17.** The bid for the works shall remain open for acceptance for a period of 90 (Ninety) days from the date of opening of technical bid.
- **18.** This notice inviting Bid shall form a part of the contract document. The successful bidders /contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
 - (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard C.P.W.D. Form 8 or other Standard C.P.W.D. Form as applicable.
 - (c) C.P.W.D General Condition of Contract (Construction work) -2023 with updated amendment (s) if any.
- 19. In case the bidder withdraw tender or make any modification in the terms & condition of the Tender which is not acceptable to the department. On view of earnest money non-deposit following bid security declaration, the contractor shall be suspended for two years and shall not be eligible to bid for AIIMS, Rishikesh tenders from date of issue of suspension order.

GOVERNMENT OF INDIA AIIMS Rishikesh

Percentage Rate Tender / Item Rate & Contract for Works

Tender for the work of: - "Establishment of DRTB ward at AIIMS Rishikesh
SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works"

- (i) Last date to be uploaded by 15:00 Hours on 13.01.2025 at https://eprocure.gov.in.
- (ii) To be opened in presence of tenderers who may be present at 15:00 Hours on 14.01.2025 in SE office, AIIMS Rishikesh.

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 Executive director of AIIMS within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing 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 respect of accordance with, such conditions so far as applicable.

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

A sum of **Rs 1,74,929.00** is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/ bank guarantee issued by a scheduled bank as earnest money.

A copy of earnest money in receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said Executive director of AIIMS Rishikesh or his successors, in office shall without prejudice to any other right or remedy to take action, Further, if I/We fail to commence work as specified, I/We agree that Executive director of AIIMS Rishikesh or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said the performance guarantee absolutely. The said performance guarantee shall be a 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 tender form.

Further, I/We agree that in case of forfeiture of 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, Rishikesh in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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in any manner prejudicial to the safety of the Stat	C.
Dated:	Signature of Contractor: - Postal Address: -
Witness: - Address: - Occupation: -	
ACC	<u>CEPTANCE</u>
behalf of the Executive director, AIIMS Rishikesh for a	the letters mentioned hereunder) is accepted by me for an on sum of Rs.
The above tender (as modified by you as provided in behalf of the Executive director, AIIMS Rishikesh for a(Rupees	sum of Rs.
behalf of the Executive director, AIIMS Rishikesh for a	sum of Rs.
behalf of the Executive director, AIIMS Rishikesh for a(Rupees).	sum of Rs.
behalf of the Executive director, AIIMS Rishikesh for a	sum of Rs.
behalf of the Executive director, AIIMS Rishikesh for a	sum of Rs.
behalf of the Executive director, AIIMS Rishikesh for a	sum of Rs.
behalf of the Executive director, AIIMS Rishikesh for a	sum of Rs.

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 there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information

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vuqlwfp;ka <u>SCHEDULES</u> [FOR MAJOR COMPONENT]

vuqlwph ^d* SCHEDULE 'A'

ek=kvksa dh vuqlwph ¼layXu½

Schedule of quantities (Enclosed)

Page No. - 42 to 51

vuqlwph ^[k* SCHEDULE 'B'

Bsdsnkj dh fuxZr dh tkus okyh lkefxz;ksa dh vuqlwph

Schedule of materials to be issued to the contractor.

Nil

vuglwph ^x* SCHEDULE 'C'

Bsdsnkj dks HkkM+s ij fn, tkus okys vkStkj ,oa la;=

Tools and plants to be hired to the contractor

Sl. No. Description Hire charges per day Place 1 2 3	fuxZr LFkkı of Issue
	: 01 155ue
NIL	4
NIL	
NIL	
NIL	
NIL	
	_

vuqlwph '^?k* SCHEDULE 'D'

/documents for the work, if any.

dk;Z ds fy, fo'ks"k vis{kk,a@nLrkost];fn dksbZ gksa] dh vfrfjDr vuqlwph Extra schedule for specific requirements

Addl. Specifications attached.

vuqlwph ¼M½ SCHEDULE 'E'

Bsds dh lkekU; 'krksZ dk lanHkZ Reference to General Conditions of contract General conditions of contract for CPWD works 2023 (Construction work) as amended upto date and special conditions attached herewith the tender document except clause-25.

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Signature of the Bidder with Company Seal

Name of work:

"Establishment of DRTB ward at AIIMS Rishikesh SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works"

dk;Z dh vuqqekfur ykxr

Estimated cost of work 34,98,567.00 1,74,929.00 (i) /kiksgi ikf'k Earnest money

(ii)fu"iknu xkjaVh Performance 7.5% of tendered value. fufofnr ewY; dk 3 izfr'kr

:-

quarantee plus Security Deposit

vuqlwph ^p* SCHEDULE `F'

lkekU; fu;e,oa fn'kkfunsZ'k%

General Rules & Directions:

fufonk vkea=.k djus okyk izkf/kdkjh Officer inviting tender -

dk;Z dh enksZ dh ek=k ds fy, vf/kdre izfr'kr ftlls vf/kd fu"ikfnr enksa ds fy, njksa dk fu/kkZj.k [k.M 12-2 vkSj 12-3 ds fuEukuqlkjvuqlkj gksxk Maximum percentage for quantity of items of work to be

executed beyond which rates are to be determined in

accordance with Clauses 12.2 & 12.3.

CPWD General specification for Civil, HVAC & Electrical including

latest amendments

EE (AC&R), AIIMS Rishikesh

50%

Definitions:

2(v) Hkkilk/kd bathfu;i

Engineer-in-Charge

2(viii) Lohdki drkZ izkf/kdkjh

Accepting Authority

2(x) vfrfjDr vkSj ykHkksa dks iwjk djus ds

fy, Je ,oa lkefxz;ksa dh ykxr ij izfr'krrk

Percentage on cost of materials and labour to cover all

overheads and profits.

15% (Fifteen per cent)

Executive Director, AIIMS

EE, AIIMS Rishikesh

2(xi) Standard Schedule of Rates:

2(xii) Department:

9(ii) Standard CPWD contract Form: Market rates & DSR 2022

(E&M)/2023 (C) **AIIMS Rishikesh**

Rishikesh

GCC Construction work 2023, CPWD

Form 8 modified & Corrected up to Correction slip received on the date of

receipt of tender.

[k.M Clause 1

Lohd`fr i= tkjh gksus dh rkjh[k ls fu"iknu xkjaVh ds

izLrgrhdj.k ds fy, vuger le;

Time allowed for submission of Performance 15 days i) and applicable labour licenses, Guarantee, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of

issue of letter of acceptance

¼mi;qZDr i ½ esa nh xbZ vof/k ds Ik'pkr~ vf/kdre vuqes;

ii) Maximum allowable extension with late fee @ 0.10%

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7 days

Signature of the Bidder with Company Seal

per day of performance guarantee amount beyond the period as provided in (i) above

[k.M Clause 2

[k.M 2 ds rgr izfrdkj fuf'pr djus okyk izkf/kdkjh

SE, AIIMS Rishikesh Authority for fixing compensation under clause 2

15 days

Rs. NA

N.A.

[k.M Clause 2A

D;k [k.M 2 d ykxw gksxk

Whether clause 2A shall be applicable No

[k.M Clause 5

dk;Z vkjaHk dh rkjh[k dh x.kuk ds fy, Lohd`fr i= ds tkjh gksus dh rkjh[k ls fnuksa dh la[;k

No. of days from the date of issue of letter of acceptance for

reckoning date of start

y{; uhps nh xbZ lkj.kh ds vuqlkj

Mile stone(s) as per table given below: N.A

dk;Z fu"ikfnr djus ds fy, vuqeR; le;

Time allowed for execution of work 90 days

Authority to decide

SE, AIIMS Rishikesh Extension of Time (i)

(ii) Rescheduling of mile stones N.A

(iii) Shifting of date of start in case of delay in SE, AIIMS Rishikesh

handing over of site

[k.M Clause 6

Applicable Clause applicable-(6)

[k.M Clause 7

varfje Hkgxrku ds fy, ik= gksus ds fy, vafre ,sls Hkqxrku ds ckn dqy Hkqxrku ,df=r lkefxz;ksa ds

vfxzeksa

ds lek;kstu lfgr fd;k tkus okyk dqy dk;Z

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

[k.M 10 d Clause10A

dk;ZLFky iz;ksx'kkyk esa Bsdsnkj }kjk miyC/k djk;s tkus

ijh{k.k midj.k dh lwph

List of testing equipment to be provided

by the contractor at site lab.

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[k.M Clause10B(ii)

D;k [k.M 10 [k (ii) ykxw gksxk

Whether clause 10B (ii) shall be applicable

[k.M Clause10C

Component of labour expressed as Percent of value of work

N.A

N.A.

[k.M Clause 10CC - NOT APPLICABLE.

[k.M-10 xx mu lafonkvksa ij ykxw gksxk ftlesa dk;Z lekiu dh vof/k vxys dkye esa n'kkZbZ xbZ vof/k ls vf/kd vuqcaf/kr gSA

Clause 10CC to be applicable in with sipulated period of compensation

exceeding the period shown in next column Months

[k.M Clause 11

dk;Z fu"iknu ds fy, vuqikyu Specifications to be followed for execution of

work

CPWD General specification for Civil, HVAC and Electrical with up to amendment received on the date of receipt of tender.

[k.M Clause 12

Type of Work Construction 12.2 & 12.3

fopyu lhek ftlds ijs [k.M 12-2 rFkk 12-3 Hkou fuekZ.k

dk;Z ds fy, ykxw gksaxs

Deviation limit beyond which clauses 12.2 & 12.3

shall apply for this works.

5**0%**

12.5 (i) Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except earth work)

50%

DELETED

(ii) Deviation limit for item in earth work subhead of DSR or related items)

100%

[k.M Clause 16

?kVh gqbZ njs fu/kkZfjr djus dh fy, I{ke izkf/kdkjh Competent Authority for deciding reduced rates **SE, AIIMS Rishikesh**

[k.M Clause 18

dk;ZLFky ij Bsdsnkj }kjk yxk;s tkus okyh vfuok;Z e'khujh vkStkj ,oa l;a=ksa dh lwph %& List of mandatory machines, tools and plants to be deployed by the contractor at site.

To be Arrange by contractor

[k.M Clause 25

Modified as attached at page no. 16-18

[k.M Clause 31

Whether clause 31 shall be applicable Yes

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Signature of the Bidder with Company Seal

[k.M Clause 32

Cost of work (Rs in Crores)	Requirement of Technical staff		Minimum experience	Designation Technical staff	Rate at which be made from the
	Qualification	Number	(Years		contractor in the event of not fulfilling
More than 15 lac to 1.5 Crore	Graduate Engineer or Diploma Engineer	1	2 or 5 respectively	Project Manager cum planning/ quality/Site/billing Engineer	Rs. 15,000/- per month per person

Sub: - Amendment in general conditions of contractor (GCC) construction works -2023 The following provision of GCC-2023 is modified as under

Existing Provision

Clause 25

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination ,completion or abandonment thereof shall be dealt with as mentioned hereinafter:

(i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge or if the Engineer in Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed, such party shall promptly within 15 days of the arising of the disputes request the Chief Engineer/ CPM, or where there is no Chief Engineer/CPM, the Additional Executive director General/Special Executive director General (CE/ADG/SDG) who shall refer the disputes to Dispute Reressal Committee (DRC) within 15 days along with a list of disputes with amounts claimed if any in respect of each such dispute. The Dispute Redressal Committee (DRC) give its decision within a period of 60 days extendable by 30 days by consent of both the parties from the receipt of reference from CE/CPM/ADG/SDG. The constitution of Dispute Redressal Committee (DRC) shall be as indicated in Schedule 'F'. Provided that no party shall be represented before the Dispute Redressal Committee by an advocate/legal counsel etc.

The DRC will submit its decision to the

Modified Provision

Arbitration & Reconciliation

- a) In case amicable settlement is not reached in the event of any dispute of difference arising out of the execution of the contract or the respective rights and liabilities of the parties or in relation to interpretation of any provision by the contractor in any manner touching upon the contract, such dispute or difference shall (except as to any matters, the decision of which is specifically provided for therein) be referred to the sole arbitration of the arbitrator appointed by AIIMS.
- b) The award of the Arbitrator shall be binding upon the parties to the dispute.
- c) Subject as aforesaid, the provisions of Arbitration and Reconciliation Act 1996 (India) or statutory modifications or re enactments thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. The venue of the arbitration shall be held at Rishikesh and the language of the proceedings shall be in English.

Subject to the above, the Courts at Rishikesh alone shall have the jurisdiction to deal any disputes between the Parties pertaining to the contract.

- d) The cost of arbitration shall be borne equally by both the parties.
- e) Work under the contract shall be continued during the arbitration proceedings.
- f) Failure to comply with any of the above conditions can result in termination of the

Contract, forfeiture of the security deposit, penalty as may be decided by AIIMS and future blacklisting of the contractor. concerned ADG/SDG for acceptance. ADG/ SDG in a time limit of 30 days from receipt of DRC decision will convey acceptance or otherwise on the said decision if the Dispute Redressal Committee (DRC) fails to give its decision within the aforesaid period or the ADG/SDG fails to give his acceptance in the aforesaid time limit or any party is dissatisfied with the decision of Dispute Redressal Committee (DRC) ADG/ SDG then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC), ADG/SDG or on expiry of aforesaid the time limits available to DRC/ ADG/SDG may give notice to the Chief Engineer/CPM, CPWD, in charge of the work or if there be no Chief Engineer/ CPM, the Additional Executive director General /Special Executive director General of the concerned region of CPWD or if there be no Additional Executive director General/ Special Executive director General, the Executive director General, CPWD for appointment of arbitrator one prescribed proforma as per Appendix XVII under intimation to the other party. It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking arbitration.

The CE/CPM/ADG/ SDG shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within 30 days of receipt of such a request and refer such disputes to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer-in-charge to CE/ADG/SDG /DG for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator who shall act as the Presiding Arbitrator In the event of

- a) A party fails to appoint the second Arbitrator, or
- b) The two appointed Arbitrators fail to appoint the Presiding Arbitrator, then the Executive director General; CPWD shall appoint the second or Presiding Arbitrator as the case may be.
- (ii) Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where claimed amount is Rs. 20 Crore or less. Where claimed Value is more than Rs. 20 Crore, Tribunal shall consist of three

Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall be applicable.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed, if any, in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the decision of the ADG/SDG on the finding / recommendation of DRC.It is also a term of this contract that member(s) of the Arbitration Tribunal shall be a Graduate Engineer with experience in handling public works engineering contracts, and further he shall have earlier worked at a level not lower than Chief Engineer/ equivalent (i.e. Joint Secretary level of Government of India). This shall be treated as a mandatory qualification to be appointed as arbitrator. Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015. Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the appointing authority. The arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/-, the arbitrator shall give reasons for the award.

It is also a term of the contract that fees payable to arbitral tribunal shall be as approved by DG, CPWD, OM issued vide no.2/2006/SE(TLC)/CSQ /137 dated 19-11-2019 (or its latest amendment as approved by DG, CPWD). This fee shall be shared equally by parties. The place of arbitration shall be as mentioned in Schedule F. In case there is no mention of place of arbitration, the arbitral tribunal shall determine the place of arbitration. The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.

Amendment in CPWD GCC 2023 Contruction Work.

Sr.no	Existing Provision	Modified Provision (Read as)
1	C.P.W.D	AIIMS Rishikesh.
2	President of India	Executive director of AIIMS Rishikesh
3	SE of Circle	SE of AIIMS Rishikesh.
4	CE of Zone	Executive director of AIIMS Rishikesh.
5	DDH	EE (AC&R)
6	Government of India	AIIMS Rishikesh

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Labour Regulations of Government of India/State.

7 CPWD Contractor's Labour Regulations.

8 ADG Settlement of Disputes & Arbitration(Clause 25) Executive director of AIIMS Rishikesh. Modified (attached at page no.16)

9

To view CPWD General Condition of Contract (GCC) click on the link https://cpwd.gov.in/Publication/GCC Construction Works 2023.pdf

OFFER FORWARDING LETTER/TENDER SUBMISSION LETTER

(To be typed submitted in the letter Head of the Company/firm of Bidder)

To, Executive Engineer (AC&R), AIIMS Rishikesh,

Sub: "Establishment of DRTB ward at AIIMS Rishikesh

SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works."

Dear Sir,

I / We acknowledge that AIIMS Rishikesh is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

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

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

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

Authorised Representative of Bidder

Signature: Name : Address :

Place: Date:

TREMS AND CONDITIONS

- 1. The work shall be carried out strictly in accordance with CPWD specifications as amended up to date and as per instructions of the Engineer-in-Charge, including as below and nothing will be paid extra.
- 2. All materials to be used on this work by the contractor shall be got approved from the Engineer-in-Charge and department.
- 3. The poor workmanship will not be accepted and defects shall be rectified at contractor's cost of the satisfaction of the Engineer-in-Charge. The Program of works are to be coordinated in accordance with the building work and no claim for idle labour will stipulated in the tender.
- 4. All the debris of the works should be removed and the contractor should clear the site immediately after the accruing of debris. Similarly, the contractor should immediately clear off any rejected material from the site.
- 5. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
- 6. The Institute shall not pay separately Central/State sales tax/VAT/Contract tax/Excise duty/GST etc. The rates tendered should be inclusive all taxes and duties. **Deduction of contract tax at source, Labour Cess, water cess etc.** shall be made while releasing payment through running/final bills as applicable. A payment details specifying the rate and amount of deduction shall however be issued.
- 7. The entire installation shall be at the risk and responsibility of the contractor until the handover.
- 8. Notwithstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included shall be provided by the contractor at no extra cost.
- 9. All system must have third party certification of the product if required.
- 10. Any type of License/NOC/ Approval from Government/ Local Body is will be in the scope of Vendor.
- 11. Any type of Inspection of Internal /External Authority will be done by Vendor.
- 12. Storage and custody of material will be in scope of Vendor.
- 13. Site clearance will be in the scope of vendor after completion of work.
- 14. Conditional bids would be summarily rejected.
- 15. T&P: The AIIMS will not issue any T&P for execution of the work.
- 16. All necessary work/ spare/ tool/ any type item required for completeness of work will be in scope of vendor and nothing will be paid extra by AIIMS.
- 17. The Contractor should submit details of the terms and conditions of the personnel deployed by him

at AIIMS. The contractor shall also ensure the police verification of each person deployed by him at AIIMS. The contractor shall also submit copies of the appointment letters of the personnel deployed at AIIMS, at the time of commencement of the contract or whenever change/replacement of any person (s) takes place during the period of the contract. AIIMS may ask to furnish the details of personnel deployed by the contractor at any time during the period of contract.

- 18. Contractor is advised to inspect the site carefully before quoting the rates. The contractor shall be deemed to have satisfied himself to the nature & extent of work at site & no claim for extra payment/or time extension will be allowed on the ground that he was not conversant with condition providing at the site. The rate shall be inclusive of all taxes, accessories, machining & labor, dismantling i.e. site clearance & shifting the debris from work place to specified place at site etc.
- 19. Shut Downs: No routine shut down shall be permitted during office hours. The contractor shall be at liberty to carry out work on holidays and after office hours but with prior permission of AIIMS.
- 20. AIIMS will not be responsible for any lapse on the part of the Contractor in enforcing of provisions of any Labour Acts /Laws, viz., Payment of Wages Act, Minimum Wages Act, Contract Labour (Regulation & Abolition) Act, 1970 and (Central) Rules, 1971 / Industrial Disputes Act, 1947 and (Central) Rules 1957, Employee's State Insurance Act, 1948 (ESI), Employee's Provident Funds and Miscellaneous Provisions Act, 1952 EPF), Gratuity, Workmen Compensation Act, Bonus Act, etc. It will be the contractor's responsibility to abide by all Statutory Laws/Regulations applicable to the contract labour engaged by him on the Contract Work. Receipt of any complaints on this ground viewed seriously. It is expressly understood that the manpower deployed by the contractor are not on the rolls of AIIMS and no legal relationship of whatsoever subsists between AIIMS and such personnel employed by the contractor.
- 21. The personnel engaged by the contractor and deployed by him at AIIMS premises will be in no way be deemed as working under employment of AIIMS and there shall not exist any employer-employee relationship between AIIMS and the contractor or his personnel deployed by him. The Contractor or personnel shall have nothing to do with AIIMS either in respect of wages/salary or such other statutory benefits or compensation etc. under the Labour Laws and other related Laws i.e. Gratuity, Bonus or Workmen Compensation Act or any other law in force. The contractor shall obtain an appropriate/adequate Policy i.e. Contractor All Risks (CAR) Policy so as to meet any obligation in any eventuality. The Contractor will be responsible for providing benefits like ESI, PF, Bonus, Group Insurance Scheme etc. under the relevant rules/laws of the State and Central Government. The Contractor shall be solely liable for any dispute that might arise in any matter in future for violation/non-compliance of Labour Laws/regulations and AIIMS will have no responsibility, whatsoever.
- 22. The employee of the contractor will ensure strict discipline and behavior and diligent performance of their duties most befitting to the decor of the most modern mechanized building and the employees of the contractor shall not in any manner cause any interference, annoyance, nuisance etc. to AIIMS staff or its business or working and will be liable for immediately replacing/relocating the individual employee if the services rendered by him are not found to be satisfactory.
- 23. In case of any damage to AIIMS's property/premises for which contractor is accountable, the contractor will be liable to pay the compensation to AIIMS as may be advised by AIIMS. The contractor shall also take full responsibility and compensate AIIMS for any loss/damage/break-down caused to the installation due to negligence of his workers.
- 24. AIIMS will not be responsible for any accident/injury/death caused to the employees provided by the contractor at site. It will be the responsibility of the contractor to abide with the all the provisions of the Workmen Compensation Act, 1923 and no compensation, whatsoever shall be paid by AIIMS in this regard.
- 25. Integrity Pact (IP) shall be applicable for all tenders / contracts as indicated in tender document. This integrity pact shall be issued as part of the Tender documents and shall be submitted by the bidder along with Technical bid duly filled, signed and stamped by the authorized signatory who signs the

bid. Only those vendors / bidders who have entered into such an IP with AIIMS shall be considered qualified to participate in the bidding. Entering into this pact shall be a preliminary qualification.

- 26. Technical bids submitted by the bidder will be opened first and evaluated for fulfilling the Prequalification criteria and other conditions in NIT/Tender documents, based on documentary evidences submitted along with the offer.
- 27. AIIMS will not take any type of responsibility for the item to be supplied by the vendor before successful commissioning and handover.

28. Performance bank guarantee:

Upon acceptance of Tender, the successful Bidder is required to deposit an amount equivalent to **7.5%** of the contract value as Performance Security. The Performance bank guarantee should be furnished within 15 days from the date of Letter of acceptance to the contractor. Performance bank guarantee may be furnished in the following forms: -

- a) Bank Guarantee from Scheduled Banks/Public Financial Institutions as defined in the Companies Act. in the form of **FDR only**.
- b) The Bank Guarantee shall not carry any interest.
- c) The Performance Bank Guarantees should **remain valid for a period of six months beyond** the date of completion of all contractual obligations of the contractor including warranty obligations.
- d) It is the responsibility of the bidder to get the Bank Guarantees revalidated/extended for the required period as may be advised by AIIMS. AIIMS shall not be liable for issue of any reminders on expiry of the Bank Guarantees.
- e) In case the Bank Guarantees are not extended before the expiry date, AIIMS reserves the right to invoke the same by informing the concerned Bank in writing, without any advance notice/communication to the concerned bidder/contractor.
- f) The Original Bank Guarantee may be sent directly by the Bank to AIIMS under Registered Post (Acknowledgement Due), addressed to the Executive Engineer (AC&R), AIIMS, Virbhadra Road, Rishikesh-249203.
- g) AIIMS reserves the right of forfeiture of Security Deposit in addition to other claims and penalties in the event of the Contractor's failure to fulfill any of the contractual obligations or in the event of termination of contract as per terms and conditions of contracts with AIIMS.
- 29. **Liquidated damage**: The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver any consignment within the period prescribed for such delivery in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods, services or works under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited.

30. Security Deposit: -

a) 2.5% will be deducted from running account bills.

31. Return of Security Deposit: -

Security Deposit will be released to the Contractor after deducting all expenses /other amounts due to AIIMS, penalty amount if any, after defect liability/warranty/ guarantee/ validation period of the contract.

32. Payment Terms for HVAC & Electrical: -

70% against supply of material 20 % against Installation 10% against Testing and commissioning & Successful handover of facility.

Payment Terms for Civil: -

100% against completion of work.

Final payment will be made on the actual measurement basis.

Payment will be made as per terms and conditions of tender document. However, it may depend on availability of funds. It can be delay due to scarcity of funds.

33. Defect liability period/ warranty period will be for <u>one year</u> after successful handing over of facility as whole.

Executive Engineer (AC&R),
AIIMS Rishikesh

FORM OF EARNEST MONEY (BANK GUARANTEE BOND)

WHEREAS, contractorcontractor") has submitted his tender dated (date) called "the Tender")	, ,
KNOW ALL PEOPLE by these presents that we (name of bank) having our registered office at	
bound unto	(Name and division of
in wordswhich payment well and truly to be made to the said I	
successors and assigns by these presents. SEALED with the Common Seal of the said Bank this.	
	20

The Conditions of this obligation are:

- (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, OR
- (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR
- (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of 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 him 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.* after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

WITNESS SEAL

(SIGNATURE, NAME AND ADDRESS)

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

ADDITIONAL CONDITIONS OF CONTRACTS

- 1. The contractor shall keep proper upkeep of all areas under the contract.
- Thorough checking of employees of the contractor during entry/exit would be done by security Staff of AIIMS.

3. Rejection of Tender and Other Conditions:

- a) AIIMS reserves the right to accept or reject the tenders without assigning any reason whatspever
- b) Conditional tenders, unsolicited tenders, tenders which are incomplete or not in the form specified or defective or have been materially altered or not in accordance with the tender conditions, specifications etc., are liable to be rejected.
- c) Tenders are liable to be rejected in case of unsatisfactory performance of the bidder with AIIMS or bidder who do not comply with the latest guidelines of Ministry/Commissions of Govt. of India. AIIMS reserves the right to reject a bidder in case it is observed that they are overloaded and may not be in position to execute this job as per the required schedule. The decision of AIIMS will be final in the regard.
- d) If a bidder who is a proprietor expires after the submission of his tender or after the acceptance of his tender, AIIMS may at their discretion, cancel such tender. If a partner of a firm expires after the submission of tender or after the acceptance of the tender, AIIMS may then cancel such tender at their discretion, unless the firm retains its character.
- e) AIIMS will not be bound by any Power of Attorney granted by changes in the composition of the firm made subsequent to execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
- f) If the bidder gives wrong information in his tender, AIIMS reserves the right to reject such tender at any stage or to cancel the contract if awarded and forfeit the Earnest Money/Security Deposit/any other money due.
- g) Canvassing in any form in connection with the tenders submitted by the Bidder shall make his offer liable to rejection.
- h) In case the proprietor, Partner or Executive director of the Company/Firm submitting the Tender, has any relative or relation employed in AIIMS, the authority inviting the Tender shall be informed of the fact as per specified format as per relevant annexure attached along with the offer.
- i) The successful bidder should not sub-contract part or complete work detailed in the tender specification undertaken by him.
- j) The Tender submitted by a techno commercially qualified bidder shall become the property of AIIMS who shall be under no obligation to return the same to the bidder. However, unopened financial bids and late tenders shall be returned to the bidders.
- k) AIIMS shall not be liable for any expenses incurred by the bidder in the preparation of the tender irrespective of whether the tender is accepted or not.

4. Cancellation of Contract in Full or in Part:

AIIMS at its sole discretion can terminate the contract at any time during the period of contract, If the Contractor:

- a) At any time makes defaults in proceeding with the works with due negligence and continues to do so even after a notice in writing from the AIIMS, Rishikesh.; or
- b) Commits default in complying with any of the terms and conditions of Contract and does not remedy it or take effective steps to remedy it within 15 days after a notice in writing is given to him in that behalf by the AIIMS, Rishikesh.; or
- c) Fails to yearly performance evaluation of the service provider/contractor by AIIMS or third party inspection report or both; or
- d) Violates any of the terms and conditions stipulated in the agreement/tender document.

5. Law Governing the Contract and Court Jurisdiction:

The contract shall be governed by the law for the time being in force in India. The civil court having original civil jurisdiction at Rishikesh shall have an exclusive jurisdiction in regard to all claims in respect of the Contract. No other civil court shall have jurisdiction in case of any dispute, under this contract.

- 6. **Use of Office Space**: No space belonging to AIIMS shall be occupied by the contractor without written permission of AIIMS.
- 7. **Sample Demonstration:** The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all accessories etc.
- 8. **Risk & Responsibility till handover:** The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However, if there is any delay from the Page 24 of 31 department side, the installation may be taken over in parts, but the decision on the same shall rest with Engineer-in-Charge which shall be binding on the contractor.
- 9. Site Inspection: Before submission of offer, the bidders must inspect the sites and be well acquainted themselves with the actual the scope of works and other prevalent conditions, facilities available, position of material and labour, means of transport and access to Site, accommodation, etc. No claim will be entertained later on the grounds of lack of knowledge of any of these conditions.

10. **Rights of AIIMS, Rishikesh:**

- a) AIIMS reserves the following rights in respect of this contract during the original contract period or its extensions if any, as per the provisions of the contract, without entitling the contractor for any compensation.
- b) To terminate the contract or get any part of the work done through other agency or deploy AIIMS's own/hired/otherwise arranged resources, at the risk and cost of the contractor after due notice period of two weeks by AIIMS in the event of:
 - (i) Contractor's continued poor progress
 - (ii) Withdrawal from or abandonment of the work before completion of the work
 - (iii) Contractor's inability to progress the work for completion as stipulated in the contact
 - (iv) Poor quality work
 - (v) Corrupt act of Contractor
 - (vi) Insolvency of the Contractor
 - (vii) Persistent disregard to the instructions of AIIMS
 - (viii) Assignment, transfer, sub-letting of contract without AIIMS's written permission

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- (ix) Non fulfilment of any contractual obligations
- (x) In the opinion of AIIMS, the contractor is overloaded and is not in a position to execute the job as per required schedule.
- c) To effect recovery from any amounts due to the contractor under this or any contract or in any other forms, the moneys AIIMS is statutorily forced to pay to anybody, due to contractor's failure to fulfil any of his obligations. AIIMS shall levy overheads of 5% on all such payments or as per the GCC & SCC of agreement.
- 11. **Responsibilities of the contractor in respect of local laws, employment of works etc.** The contractor shall fully indemnify AIIMS against any claims of whatsoever nature arising due to the failure of the contractor in discharging any of his responsibilities. The following are the responsibilities of the contractor in respect of observance of local laws, employment of personnel, payment of taxes etc.:
 - **a)** The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals and religious and other customs.
 - **b)** The contractor shall comply with all applicable State and Central Laws, Statutory Rules, Regulations etc. such as Payment of Wages Act, Minimum Wages Act, Workmen Compensation Act, Employer's Liability Act, Industrial Dispute Act, Employers Provident Act, Employees State Insurance Scheme, Contract Labour (Regulation and Abolition) Act 1970, Payment of Bonus & Gratuity Act and other Acts, Rules and Regulations for labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at Site. The Contractor shall also give to the local Governing Body, Police and other relevant Authorities all such notices as may be required by the Law.
 - **c)** The Contractor shall pay all taxes, fees, license charges, deposits, tolls, royalties, commission or other charges which may be liable on account of his operations in executing the contract.
 - **d)** Contactor shall be responsible for provision of Health and Sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act), Safety precautions etc. as may be required for safe and satisfactory execution of contract.
 - **e)** The Contractor shall be responsible for proper accommodation including adequate medical facilities for personnel employed by him.
 - **f)** The Contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused, it is responsibility of the contractor to make good the losses or compensate for the same.
 - **g)** The Contractor shall arrange, coordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.
 - **h)** All safety rules and codes applied by the AIIMS at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing guards, slings etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards. Due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of Clerical staff, watch and ward, store keepers to take care of equipment/materials and construction tools and tackles shall be posted at site by the contractor till the completion of work under this contract.
 - i) The contactor shall arrange for such safety devices as are necessary for such type of work and carry out requisite site tests of handling equipment, lifting tools, tackles etc. as per prescribed standards and practices.
 - **j)** Contractor has to ensure the implementation of Health, Safety and Environment (HSE) requirements as per directions given by AIIMS/Customer. The contractor has to assist in HSE audit by AIIMS/Customer and submit compliance Report. The contractor has to generate and submit record/reports as per HSE plan/activities as per instruction of AIIMS/Customer.
 - **k)** The contractor will be directly responsible for payment of wages to his workmen. A pay roll sheet given all the payments given to the workers and duly singed by the contactor's representative should be furnished to AIIMS site for record purpose, if so called for.
 - I) In case of any class of work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements

12. Insurance

- a) It is the sole responsibility of the contractor to insure his materials, equipment's, workmen, etc. against accidents and injury while at work and to pay compensation, if any, to workmen as per Workmen's compensation Act. The work be carried out in protected area and all the rules and regulations of the AIIMS in the area of project which are in force from time to time will have to be followed by the contractor.
- b) If due to negligence and or non-observation of safety and other precautions by the contactors, any accident/injury occurs to the property/manpower belong to third party, the contractor shall have to pay necessary compensation and other expense, if so by the appropriate authorities.
- c) The contractor will take necessary precautions and due care to protect the material, while in his custody from any damage/loss due to theft or otherwise till the same is taken over by AIIMS or customer. The contractor will submit necessary documents for lodging/processing of insurance claim. AIIMS will recover the loss from the contractor, in case the damage /loss is due to carelessness / negligence on the part of the contractor. In case of any theft of material under contractor's custody, matter shall be reported to police by the contractor immediately and copy of FIR and subsequently police investigation report shall be submitted to AIIMS for taking up with insurance. However this will not relieve the contractor of his contractual obligation for the material in his custody. Vendor responsible to complete assignment as per term and condition NIT subsequently agreement as signed with AIIMS.

13. Force Majeure

The following shall amount to Force Majeure:

- a) Acts of God, act of any Government, War, Sabotage, Riots, Civil commotion, Police action, Revolution, flood, Fire, Cyclones, Earth quake and Epidemic and other similar causes over which the contractor has no control.
- b) If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by force majeure as defined above, the agreed time of completion of the job covered by this contract or the obligations of the contractor shall be extended by a period of time equal to period of delay, provided that on the occurrence of any such contingency, the contractor immediately reports to AIIMS in writing the causes of delay and the contractor shall not be eligible for any compensation.
- 14. General Conditions of the Contract (GCC) of CPWD with Up to Dated amendment, Tender form and Special Conditions of the Contract (SCC), additional conditions of contract and NIT will form the part of the contract.
- 15. The General Conditions of the Contract (GCC) of CPWD can be seen and downloaded from CPWD website and given below link:
 https://cpwd.gov.in/Publication/GCC construction Works 2023.pdf amended are attached at page no 17.
- 16. All Annexures are to be submitted with the bids duly signed.

Annexure -1

TENDER ACCEPTANCE LETTER (To be given on Company Letter Head)

Da	to:
υa	LC.

To, Executive Engineer (AC&R) AIIMS, RISHIKESH

Sub: Acceptance of Terms & Conditions of Tender.

Tandar	Reference No		
renaei	Reference NO.	_	

Name of Tender / Work: "Establishment of DRTB ward at AIIMS Rishikesh SH: - Supply Installation, Testing & Commissioning of Civil, HVAC and Electrical works."

Dear Sir,

- 1. I/ We have downloaded / obtained the tender document(s) for the above-mentioned 'Tender/Work' from the web site(s) namely: www.aiimsrishikesh.edu.in as per advertisement, given in the above mentioned website(s).
- 2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents of all pages (including all documents like annexure(s), schedule(s), etc.,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
- 3. The corrigendum(s) issued from time to time by department/ organization too has also been taken into consideration, while submitting this acceptance letter.
- 4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
- 5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking/Private organization.
- 6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit /Security deposit or both absolutely.

	Signature of authorized person Full Name & Designation: Company's Seal	
	Annexure -2	
_	DECLARATION BY AUTHORISED SIGNATORY OF BIDDER (To be typed submitted in the letter Head of the Company/firm of Bidder)	
	utive Engineer (AC&R) 5, RISHIKESH	
Dear S	Sir,	
Sub: Ref:	Declaration by Authorised Signatory i) NIT/Title of the work. Name of Tender No, ii) All other pertinent issues till date	
Tende specifi	hereby certify that all the information and data furnished by me with regard to the abover Specification are true and complete to the best of my knowledge. I have gone through the fications, condition, stipulations and other pertinent issues till date, and agree to comply with equirements and Intent of the specification.	ie
	ther certify that I am authorized to represent on behalf of my company/firm for the above ioned tender and a valid Power of Attorney/Authorization letter to this effect is also enclosed	
	Yours faithfully,	
	(Signature, Date & Seal of Authorized Signatory of the Bidder)	
Date:		

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Enclosed: Power of Attorney/Authorization letter

Signature of the Bidder with Company Seal

DECLARATION CONFIRMING KNOWLEDGE ABOUT SITE CONDITIONS

(To be typed submitted in the letter Head of the Company/firm of Bidder)

NO DEVIATION CERTIFICATE

(To be typed submitted in the letter Head of the Company/firm of Bidder)

	ive Engineer (AG RISHIKESH	C&R)
Dear S	r,	
Sub: Ref:	No deviation	certificate No

ii) All other pertinent issues till date

We hereby confirm that we have not changed/modified/materially altered any of the tender documents as downloaded from the website/issued by AIIMS and in case of such observance at any stage, it shall be treated as null and void and this tender shall deemed to be withdrawn.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred NIT/Tender Specification.

We further confirm our unqualified acceptance to all Terms and conditions, unqualified compliance to Tender Conditions, Integrity Pact (if applicable) and acceptance to Reverse bidding process.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid reference.

Thanking you,

Yours faithfully,

(Signature, Date & Seal of Authorized Signatory of the Bidder)

DECLARATION

(TO BE TYPED ON NON-JUDICIAL STAMP PAPER OF RS.10/-)

	ve Engineer (AC&R) RISHIKESH
Ref: 1)	NIT/Tender No
Dear Sir	r,
1 h	. We have carefully read and understood all the terms and conditions of the tender and ereby convey our acceptance to the same.
0	The information / documents furnished along with the above offer are true and uthentic to the best of my knowledge and belief. We are well aware of the fact that furnishing f any false information / fabricated document would lead to rejection of our tender/Order at ny stage besides liabilities towards prosecution under appropriate law.
_	We are agree to bear penalty imposed upon us due to nonperformance or deficiencies or delay in work or poor workmanship in the services on our part.
4	. We have no objection, if enquiries are made about the work listed by us.
a d b	We have not been under suspension/termination/banned/blacklisted in the preceding 2 lears, till last date of submission of bid, by any PSU/Govt. Departments/PSU Banks/AIIMS or any other organization where we have worked. Further, if any of the partners/Executive lirectors of our organization /firm is black listed or having any criminal case against them, our bid/offer shall not be considered. At any later point of time, if this information is found to be alse, AIIMS may terminate the assigned contract immediately.
6 tı	We have not been found guilty by a court of law in India for fraud, dishonesty or moral urpitude.
7 u	We agree that the decision of AIIMS in selection of Bidders will be final and binding to us.

Signature of authorized person Full Name & Designation

Company's Seal:

Date: Place:

- 1. The above declaration, duly signed and sealed by the authorized signatory of the company, should be enclosed with Technical Bid.
- 2. The filling of this declaration is mandatory while submitting the tender documents failing which the tender will rejected out rightly.

FINANCIAL INFORMATION

Financial Analysis - Details to be furnished duly supported by figures in balance sheet/profit & loss account duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

I) Gross Annual Turn Over:-

Descriptions	2021-2022	2022-2023	2023-2024
Gross Annual Turn Over			
Average turn-over of three years			

II) Profit / Loss for last Five years ending 31.03.2023: -

S.No.	Financial Information in Rs. Equivalent	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
1	Total Assets					
2	Current Assets					
3	Total Liabilities					
4	Current Liabilities					
5	Profit before Tax					
6	Profit after Tax					
7	Net Worth					

Signature of Bidder(S) with Seal

Signature of Chartered Accountant with Seal

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Contact Details for seeking clarifications, if any

S.no	Description	Fill by Bidder
1	Name of the Firm	
2	Office Address	
3	Name of the person	
4	Designation	
5	E-mail ID	
6	Contact Number	

Signature of Bidder(S) with Seal

Check List

S.no.	Information for bidder	Remarks	Refer page no. of submitted bid
1	Duly signed with company seal on each Page of Notice Inviting Tender (& its corrigendum if any)	Yes/No	
2	Earnest Money Deposited	Yes/No	
3	Whether three similar works each of value not less than 40% of the estimated cost put to the tender OR Two similar works each of value not less than 60% of the estimated cost put to Tender OR One similar works each of value not less than 80% of the estimated cost put to Tender with completion certificate along with purchase/work order (details provided)	Yes/No	
4	Acceptance of Tender Condition (read and duly signed)	Yes/No	
5	General Conditions of Contract (read and duly signed)	Yes/No	
6	Proforma of Schedules (read and duly signed)	Yes/No	
7	Copy of PAN Card	Yes/No	
8	Annual Financial Turnover should be at least 30% of the estimated cost put to tender and Average financial turnover during the immediate last three consecutive financial years, duly audited and certified by the chartered Accountant	Yes/No	
9	Copy of GST Registration	Yes/No	
10	The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheet, duly audited and certified by the chartered accountant	Yes/No	
11	Integrity Pact (duly filled & signed)	Yes/No	
12	Annexure-1 (duly filled & signed)	Yes/No	
13	Annexure-2 (duly filled & signed)	Yes/No	
14	Annexure-3 (duly filled & signed)	Yes/No	
15	Annexure-4 (duly filled & signed)	Yes/No	
16	Annexure-5 (duly filled & signed)	Yes/No	
17	Annexure-6 (duly filled & signed)	Yes/No	
18	Annexure-7 (duly filled & signed)	Yes/No	
19	Check list filled (duly filled & signed)	Yes/No	

Signature of Bidder(S) with Seal

Other Terms and Conditions

A. In general the scope of works to be performed under this contract shall include but not limited to:-

- Supply, transportation to site, loading, unloading, storage, installation, testing, commissioning, validation and handing over of entire facility at AIIMS Rishikesh.
- Effective co-ordination with the other agencies (internal & external) to carry out the work smoothly.

B. PRICE:

Price shall be inclusive of all taxes & duties whatsoever, excise duty, sales tax, GST service tax, octroi (if any), work contract tax, commissioning spares, labour, tools & plants, packing, freight/ transportation & insurance up to the site, loading, unloading, fee (s) for testing, license, inspection, documents, etc., where applicable. AIIMS Rishikesh does not give any confessional forms/ certificates/ permits towards any taxes, duties & other levies like sales tax, customs duty, road taxes/ permits, etc. Prices shall be firm throughout the contract period.

C. **NEW MATERIALS**

All equipment, materials used in the work shall be brand new and free from manufacturing defects.

D. REPLACEMENT OF DEFECTIVE/ DAMAGED ITEMS

 All defective/damaged items shall be replaced with the good ones without any extra cost as per guarantee clause.

E. TOOLS & TACKLES:

All the required special tools & tackles for executing this work shall be in the scope of the bidder.

F. QUALITY OF WORK & WORKMANSHIP:

• The quality of work, workmanship, finishing etc. should be satisfactory to the AIIMS Rishikesh. No payment shall be made for inferior quality or rejected work.

G. TESTING AND INSPECTION:

- All items to be supplied shall conform to type tests as per the relevant standards. The bidder shall furnish the reports of all tests carried out. These reports should be for the tests conducted on identical/similar components/equipment/systems to those offered /proposed to be supplied under this contract. In case type test reports are not found to be meeting the specifications/relevant standard requirement then all such tests shall be conducted under this contract by the contractor free of cost to owner and reports shall be submitted for approval. All test shall be carried out in the presence of the inspecting officer from AIIMS Rishikesh.
- The decision to inspect/waive shall rest with the AIIMS Rishikesh. Items can add/delete/modify the same in the interest of organization/work from time to time considering cost, quantity, significance, completion schedules etc.
- If any equipment/material fails in the tests conducted during inspection, necessary rework/replacement shall be done and equipment shall be re-offered for inspection without any cost to owner.

H. STATUTORY LAWS/RULES/APPROVALS/LICENSE:

• The contractor/agency shall abide by the relevant statutory rules, laws, and guidelines and arrange for the approvals, if any required. That include adhering to labour laws and rules etc.

I. SITE TESTS/ PERFORMANCE TESTS:

 Necessary site validation tests/ performance shall be conducted to ascertain the functional / design/ site requirements. Reports shall be prepared recording the various values, parameters, observations, settings

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made etc. In case of unsatisfactory results, the same shall be replaced/ rectified as per the requirement without any extra cost.

J. HANDING OVER/ CERTIFIED DATE OF COMPLETION:

• Up on the satisfactory commissioning of the entire system, the system shall be observed till submission of validation reports. After this satisfactory trial period, the work shall be handed over officially and completion date recorded by Engineer-in- charge with all the necessary formalities for handing over.

Note: -

- 1. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
- 2. The contractor will be responsible for malfunctioning of material supplied by him, it might be due to poor workmanship or due to spare supplied by him or any other reason.

<u>List Of Preferred Makes (CIVIL)</u>

Note:

- Unless otherwise specified, the brand/make of the material as specified in the item 1. nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
- The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for 2. any specific material/ Brand/ Make.
- 3. Whenever the specified brand of material is not available than, 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.

	MATERIALS:	BRAND/MAKE
1	AAC Block	Aerocon, Siporex, Ultratech, Ecolite, Concrelite,

AAC Block AAC Block Adhesive AAC Block Adhesive AAC Block Adhesive AAC Block Adhesive Ferrous crete(Ferro-1188), ARDEX ENDURA (White Star), Ultratech (Fixed-Block), Synthetic Enamel Paint and Primer. Epoxy Adhesive FOSROC, Aquomix, Choksey, BAL-ENDURA,MYK Laticrete Aluminium Composite Panel Aluminium Extrusions Aluminium Sections Annealed Float Glass Annealed Float Glass Bittuen Calcium Silicate Board / Tiles CC Pavers / Grass Pavers CC Pavers / Grass Pavers CC Pavers / Grass Pavers CL Centrifugally Cast Iron Pipe & Fittings CC Indinhole Cover Bit Cover Grass Pavers CD Bubble Flanged non-return valves CI Manhole Cover Bit CPP (Pipes & Fittings) CUrtain Carrier / Drapery Rod Dosh fastener, Expansion Bolt Hydraulic Door closer, Floor springs Dosh Gasket Hydraulic Door closer, Floor springs Epoxy Primer & Paints Ferrous crete(Ferro-1188), ARDURA, (With Ita Star), Ultra, KIS Concrete, Duracrete, Mehtab Tiles, Kaptian Are of the Cover Bit Cover B		MATERIALS: BRAND/MAKE				
AC Block Adhesive Ferrous crete(Ferro-1188), ARDEX ENDURA (White Star), Ultratech (Fixed-Block) Acrylic Distemper, Emulsion, Synthetic Enamel Paint and Primer. 4 Epoxy Adhesive FOSROC, Aquomix, Choksey, BAL-ENDURA,MYK Laticrete Aluminium Composite Panel Aluminium Extrusions Hindalco, Indalco, Jindal Aluminium Sections Annealed Float Glass Bitumen CC Pavers / Grass Pavers CC Pavers / Grass Pavers Nitco, Hindalco, Jindalco, Jindalco CC Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CC Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CC Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CC Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CC Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CR Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CR Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CR Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CR Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi CR Pavers / Grass Pavers Nitco, Hindalco, Jindalro, Sashi Nitco, Vinidalro, Hindalco, Jindalro, Sashi Nitco, Pindalro, Sashi Nitco, Vinidalro, Molf Guard, Asahi Nitco, Hindalco, Jindalro, Sashi Nitco, Pindalro, Silva Nitco, Orient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Sashi Nitco, Pindalro, Marko, Marko, Marko, Nitco, Orient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Sashi Nitco, Vient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Marko, Nitco, Orient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Nitco, Orient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Nitco, Orient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Nitco, Orient Bell, Johnson, Rak Ceramics Nitco, Hindalco, Jindalro, Nitco, Orient Bell, Dela Nitco, Pindalro, Nitco, Orient Bell, Johns	1	AAC Block	Aerocon, Siporex, Ultratech, Ecolite, Concrelite, J.K. Laxmi (Cement Ltd.), BILTECH, Kansal, Dlite Blocks			
Acrylic Distemper, Emulsion, Synthetic Enamel Paint and Primer. 4 Epoxy Adhesive FOSROC, Aquomix, Choksey, BAL-ENDURA,MYK Laticrete 5 Aluminium Composite Panel 6 Aluminium Extrusions 7 Aluminum Sections 8 Annealed Float Glass 8 Jindal, Hindalco, Indalco, Jindal 9 Bitumen 10 Calcium Silicate Board / Tiles 11 CC Pavers / Grass Pavers 11 CC Pavers / Grass Pavers 11 CC Pavers / Grass Pavers 12 Centrifugally Cast Iron Pipe & Fittings 13 Ceramic Tiles 14 Chequered / Tactile Tiles 15 CI Manhole Cover 16 CI Double flanged non-return valves 17 CP fittings 18 CPP (Pipes & Fittings) 18 CyP (Pipes & Fittings) 19 Curtain Carrier / Drapery Rod 20 Dash fastener, Expansion Bolt 21 Hydraulic Door closer, Floor springs 22 Ductile Iron Pipe (Water Supply) 23 EPOM Gasket 24 GRC / Tactile Tile 25 Epoxy Grouting Compound 26 Epoxy Primer & Paints 27 Fire Check door 28 Fittings 29 Fittings 20 Curtain Carrier Jorapery Rod 20 Fire Check Goor 21 Fire Check Goor 22 Fire Check Goor 33 Gi Sheet 34 Glass Mirror 45 Glidle, Salar Gobain, Asahi 56 Glass Mirror 57 Fire Check Goor 58 Fire Check Goor 59 Fire Check Goor 59 Fire Check Goor 50 Fire Check Goor 50 Fire Check Goor 50 Fire Check Goor 50 Fire Check Goor 51 Fire Check Goor 51 Fire Salar Salar Gobain, Asahi 52 Gypsum Board (False Ceiling) 53 Glass Mirror 54 Gurbain Garder 55 Fire Check Goor 56 Fire Check Goor 57 Fire Check Goor 58 Fire Check Goor 58 Fire Check Goor 59 Fire Salar Garder 59 Fire Salar Garder 50 Fire Salar Garder 50 Fire Salar Garder 50 Fire Check Goor 50 Fire Salar Garder 51 Fire Check Goor 51 Fire Salar Garder 52 Fire Check Goor 53 Fire Salar Garder 54 Gurbain Garder 55 Fire Check Goor 56 Fire Check Goor 57 Fire Check Goor 58 Fire Check Goor 58 Fire Check Goor 59 Fire Salar Garder 59 Fire Check Goor 50 Fire Salar Garder 50 Fire Check Goor 50 Fire Salar Garder 50 Fire Check Goor 51 Fire Check Goor 52 Fire Check Goor 53 Fire Grant Garder 54 Fire Check Goor 55 Fire Check Goor 56 Fire Check Goor 57 Fire Check Goor 58 Fire Check Goor 58 Fire Check Goor 59 Fire Salar Garder 59 Fi	2	AAC Block Adhesive	Ferrous crete(Ferro-1188), ARDEX ENDURA (White Star), Ultratech			
4 Epoxy Adhesive FOSROC, Aquomix , Choksey, BAL-ENDURA, MYK Laticrete 5 Aluminium Composite Panel Alpolic, Aluco Bond, Reynobond, Euro bond, Alstrong 6 Aluminium Extrusions Hindako, Indako, Jindal 7 Aluminium Sections Jindal, Hindako, Indako (Latico), Indako (L	3					
5 Aluminium Composite Panel Alpolic, Aluco Bond, Reynobond, Euro bond, Alstrong 6 Aluminium Extrusions Hindalco, Indalco, Indalco, Indalco 7 Aluminium Sections Jindal, Hindalco, Indalco 8 Annealed Float Glass Saint Gobain, Modi Guard, Asahi 9 Bitumen Indian Oil, Hindustan Petroleum, Bharat Petroleum 10 Calcium Silicate Board / Tiles Aerolite, Hilux, Starpan 11 CC Pavers / Grass Pavers Nitco, Hindustan, Ultra, KJS Concrete, Duracrete, Mehtab Tiles, Kaptim 12 Ceramic Tiles Kajaria, Nitco, Orient Bell, Johnson, RAK Ceramics 13 Ceramic Tiles Kajaria, Nitco, Orient Bell, Johnson, RAK Ceramics 14 Chequered / Tactile Tiles Dura, Eurocon, Modern, Hindistan, Johnson, Eavison 15 CI Manhole Cover BIC, SKF, NICO, Hepco, Kapilansh, RIF 16 CI Double flanged non-return valves Kirloskar, Sant, Kartar 17 CP fittings Jaquar, Marc, Kohler, Grohe 18 CPVC Pipes & Fittings Jaquar, Marc, Kohler, Grohe 19 Curtain Carrier / Drapery Rod Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS 10 Dash fastener, Expansion Bolt Hilti, Bosch Fischer 11 Hydraulic Door closer, Floor springs Dorma, Hettich, Hafele, Geze 12 Ducile Iron Pipe (Water Supply) Electro steel, Kesso, KDUPL, Electro Spun 12 EPDM Gasket Hanu, Anand, Lescuyer Unistone, Eurocon, Dazzle 12 Epoxy Grouting Compound Picilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock 18 Epoxy Primer & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 19 Epoxy Frince & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 20 Epoxy Primer & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 21 Float Glass Mirror Modifioat, Saint Gobain, Asahi 22 Flush Doors (ISI Mark only) Galvanized/Stainless Steel Anchor Fasteners 23 Gi Pipe & fittings Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only) 24 Galvanized/Stainless Steel Anchor Fasteners 25 Gissen Sosaic Tile Bisazza, Italia, Palladio, Mridul 26 Gypsum Board (False Ceiling) Biszaza, Italia, Palladio, Mridul 37 Hardener Hardcrete of Snowcem India, Pidilite, CICO. 38 HDPE Pipes 39 Jet Assembly for EWC/Health Faucet Partyware, Ja	4		FOSROC, Aguomix , Choksev, BAL-ENDURA, MYK Laticrete			
6 Aluminium Extrusions Jindal, Pindalco, Jindalco Jindalco Aluminum Sections Jindal, Hindalco, Indalco Jindalco Bannealed Float Glass Saint Gobain, Modi Guard, Asahi Indian Oil, Hindustan Petroleum, Bharat Petroleum Calcium Silicate Board / Tiles Aerolite, Hiliux, Starpan Indian Oil, Hindustan Petroleum, Bharat Petroleum Calcium Silicate Board / Tiles Aerolite, Hiliux, Starpan Nitco, Hindustan, Ultra, KJS Concrete, Duracrete, Mehtab Tiles, Kaptim Ceramic Tiles Ceramic Tiles Kajaria, Nitco, Orient Bell, Johnson, RAK Ceramics Ceramic Tiles Ceramic Tiles Dura, Eurocon, Modern, Hindistan, Johnson, Eavison St. Glamhole Cover BLC, SKF, NICO, Hepco, Kapilansh, RIF CI Double flanged non-return valves Kirloskar, Sant, Kartar Jaquar, Marc, Kohler, Grobe CI Double flanged non-return valves Kirloskar, Sant, Kartar Jaquar, Marc, Kohler, Grobe Cutain Carrier / Drapery Rod Marvel, Vista levlor, Johnson. Marvel, Vista levlor, Johnson. Dash fastener, Expansion Bolt Hilti, Bosch Fischer Ductile Iron Pipe (Water Supply) Electro steel, Kesso, KDUPL, Electro Spun Hanu, Anand, Lescuyer Hanu, Anand, Lescuyer George Pipes Wester Supply Hanu, Anand, Lescuyer Fire Check door Navair, Godrej, Shakti Float Glass Mirror Modifloat, Saint Gobain, Asahi Galvanized/Stainless Steel Anchor Fasteners Glass Mirror Modifloat, Saint Gobain, Asahi Galvanized/Stainless Steel Anchor Fasteners Glass Mirror Hands Glass Mirror Hands Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul Goypsum Board (False Ceiling) Boral Gypsum, St. Gobain Harderer Gastener Harderer Grower Pipfiab Pastener Harderer Harderer Grower Pipfiab Pasteners Harderer Harderer Grower Mirdia, Pipfiab Pasteners Harderer Harderer Grower Mirdia, Pipfiab Past world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel Inc. 4 Laminate and Veneers Merins Goderie, Harrision, Dorme, Doorset (ISI)						
Aluminum Sections Jindal, Hindalco, Indalco	6	*				
9 Bitumen	7					
Calcium Silicate Board / Tiles	8	Annealed Float Glass	Saint Gobain, Modi Guard, Asahi			
Calcium Silicate Board / Tiles	9	Bitumen				
Kaptim NECO, SKF, BIC, RIF, KAPILANSH, HIF	10	Calcium Silicate Board / Tiles				
Centrifugally Cast Iron Pipe & Fittings NECO, SKF, BIC, RIF, KAPILANSH, HIF	11	CC Pavers / Grass Pavers				
13 Ceramic Tiles Kajaria, Nitco, Orient Bell, Johnson, RAK Ceramics 14 Chequered / Tactile Tiles Dura, Eurocon, Modern, Hindistan, Johnson, Eavison 15 CI Manhole Cover BIC, SKF, NICO, Hepco, Kapilansh, RIF 16 CI Double flanged non-return valves Kirloskar, Sant, Kartar 17 CP fittings Jaquar, Marc, Kohler, Grohe 18 CPVC Pipes & Fittings Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS 19 Curtain Carrier / Drapery Rod Marvel, Vista levlor, Johnson. 20 Dash fastener, Expansion Bolt Hilti, Bosch Fischer 21 Hydraulic Door closer, Floor springs Dorma, Hettich, Hafele, Geze 22 Ductile Iron Pipe (Water Supply) Electro steel, Kesso, KDUPL, Electro Spun 23 EPDM Gasket Hanu, Anand, Lescuyer 24 GRC / Tactile Tile Unistone, Eurocon, Dazzle 25 Epoxy Grouting Compound Pidlite, Ferrous Crete (Ferro-102), MYK LATICRETE, Fosrock 26 Epoxy Primer & Paints Berger, Pidlite, CICO, BASF, SIKA, Fosrock 27 Fire Check door Navair, Godrej, Shakti 28 Float Glass Mirror Modifloat, Saint Gobain, Asahi 29 Flush Doors (ISI Mark only) Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon 30 Friction Stay Earl-Bihari, Geze, Hettich, Securistyle 31 Galvanized/Stainless Steel Anchor Fasteners 32 GI Pipe & fittings Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only) 33 GI Sheet Sail, TATA, Jindal or equivalent 34 Gun Metal Gate Valve Sail, TATA, Jindal or equivalent 35 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 36 Gypsum Board (False Ceiling) Boral Gypsum, India Gypsum, St. Gobain 37 Hardener Hardcrete of Snowcem India, Pidlitte, CICO. 38 HDPE Pipes 39 Jet Assembly for EWC/Health Faucet Parryware, Jaquar, Marc, PRIMA(ISI) 40 Kitchen loft tank Sintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet 41 Laminate and Veneers Merino, Greenlam, Kitlam, Duro 42 Locks / Latch Godores Assembly Dorset (ISI)	12	Centrifugally Cast Iron Pipe & Fittings				
14 Chequered / Tactile Tiles Dura, Eurocon, Modern, Hindistan, Johnson, Eavison 15 CI Manhole Cover BIC, SKF, NICO, Hepco, Kapilansh, RIF 16 CI Double flanged non-return valves Kirloskar, Sant, Kartar 17 CP fittings Jaquar, Marc, Kohler, Grohe 18 CPVC Pipes & Fittings Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS 19 Curtain Carrier / Drapery Rod Marvel, Vista levlor, Johnson. 10 Dash fastener, Expansion Bolt Hilti, Bosch Fischer 11 Hydraulic Door closer, Floor springs Dorma, Hettich, Hafele, Geze 12 Ductile Iron Pipe (Water Supply) Electro steel, Kesso, KDUPL, Electro Spun 13 EPDM Gasket Hanu, Anand, Lescuyer 14 GRC / Tactile Tile Unistone, Eurocon, Dazzle 15 Epoxy Grouting Compound Pidlite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock 16 Epoxy Primer & Paints Berger, Pidlite, CICO, BASF, SIKA, Fosrock 17 Fire Check door Navair, Godrej, Shakti 18 Float Glass Mirror Modifloat, Saint Gobain, Asahi 19 Flush Doors (ISI Mark only) Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon 19 Firction Stay Earl-Bihari, Geze, Hettich, Securistyle 10 Galvanized/Stainless Steel Anchor Fasteners 10 Galvanized/Stainless Steel Anchor Fasteners 11 Float Glass Mosaic Tile Sail, TATA, Jindal, Prakash Surya, Swastik; (ISI Marked only) 11 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 12 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 13 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 14 Gypsum Board (False Ceiling) Boral Gypsum, India Gypsum, St. Gobain Hardener Hardcrete of Snowcem India, Pidlilite, CICO. HDPE Pipes VECTUS, Emco, Polyfins, Pioneer, Plyfab Paryware, Jaquar, Marc, PRIMA(ISI) VECTUS, Emco, Polyfins, Pioneer, Plyfab Plastics, Sri Kamakshi Traders, Sreyah Novel InC. Herricol Cocks / Latch Herricologo Corrections Hardcrete of Snowcem India, Pidlilite, CICO. Hardcrete of Snowcem India, Pidlilite, CICO. Hardcrete of Snowcem India, Pidlilite, CICO						
15CI Manhole CoverBIC, SKF, NICO, Hepco, Kapilansh, RIF16CI Double flanged non-return valvesKirloskar, Sant, Kartar17CP fittingsJaquar, Marc, Kohler, Grohe18CPVC Pipes & FittingsAstral Flowguard, Ashirvad, Prince, Supreme, Finolex,VECTUS19Curtain Carrier / Drapery RodMarvel, Vista levlor, Johnson.20Dash fastener, Expansion BoltHillti, Bosch Fischer21Hydraulic Door closer, Floor springsDorma, Hettich, Hafele, Geze22Ductile Iron Pipe (Water Supply)Electro steel, Kesso, KDUPL, Electro Spun23EPDM GasketHanu, Anand, Lescuyer24GRC / Tactile TileUnistone, Eurocon, Dazzle25Epoxy Grouting CompoundPidlilte, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock26Epoxy Primer & PaintsBerger, Pidlilte, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrej, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board	14	Chequered / Tactile Tiles				
16CI Double flanged non-return valvesKirloskar, Sant, Kartar17CP fittingsJaquar, Marc, Kohler, Grohe18CPVC Pipes & FittingsAstral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS19Curtain Carrier / Drapery RodMarvel, Vista levlor, Johnson.20Dash fastener, Expansion BoltHilti, Bosch Fischer21Hydraulic Door closer, Floor springsDorma, Hettich, Hafele, Geze22Ductile Iron Pipe (Water Supply)Electro steel, Kesso, KDUPL, Electro Spun23EPDM GasketHanu, Anand, Lescuyer24GRC / Tactile TileUnistone, Eurocon, Dazzle25Epoxy Grouting CompoundPidlite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock26Epoxy Primer & PaintsBerger, Pidlilite, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrej, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board (False Ceiling)Boral Gypsum, India Gypsum, St. Gobain37	15					
17CP fittingsJaquar, Marc, Kohler, Grohe18CPVC Pipes & FittingsAstral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS19Curtain Carrier / Drapery RodMarvel, Vista levlor, Johnson.20Dash fastener, Expansion BoltHilti, Bosch Fischer21Hydraulic Door closer, Floor springsDorma, Hettich, Hafele, Geze22Ductile Iron Pipe (Water Supply)Electro steel, Kesso, KDUPL, Electro Spun23EPDM GasketHanu, Anand, Lescuyer24GRC / Tactile TileUnistone, Eurocon, Dazzle25Epoxy Grouting CompoundPidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock26Epoxy Primer & PaintsBerger, Pidilite, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrei, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board (False Ceiling)Boral Gypsum, India Gypsum, St. Gobain37HardenerHardenerHarderete of Snowcem India, Pidilite, CICO.3	16	CI Double flanged non-return valves				
19 Curtain Carrier / Drapery Rod 20 Dash fastener, Expansion Bolt Hilti, Bosch Fischer 21 Hydraulic Door closer, Floor springs Dorma, Hettich, Hafele, Geze 22 Ductile Iron Pipe (Water Supply) Electro steel, Kesso, KDUPL, Electro Spun 23 EPDM Gasket Hanu, Anand, Lescuyer 24 GRC / Tactile Tile Unistone, Eurocon, Dazzle 25 Epoxy Grouting Compound Pidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock 26 Epoxy Primer & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 27 Fire Check door Navair, Godrej, Shakti 28 Float Glass Mirror Modifloat, Saint Gobain, Asahi 29 Flush Doors (ISI Mark only) Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon 30 Friction Stay Earl-Bihari, Geze, Hettich, Securistyle 31 Galvanized/Stainless Steel Anchor Fasteners 32 GI Pipe & fittings Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only) 33 GI Sheet Sail, TATA, Jindal or equivalent 34 Gun Metal Gate Valve Zoloto, Leader, SANT, Prima 35 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 36 Gypsum Board (False Ceiling) Boral Gypsum, India Gypsum, St. Gobain 37 Hardener Hardcrete of Snowcem India, Pidilite, CICO. 38 HDPE Pipes VECTUS, Emco, Polyfins, Pioneer, Plyfab 39 Jet Assembly for EWC/Health Faucet Plastics, Sri Kamakshi Traders, Sreyah Novel InC. 41 Laminate and Veneers Merino, Greenlam, Kitlam, Duro 42 Locks / Latch Godrej, Harrision, Dorma, Doorset (ISI)	17		Jaquar, Marc, Kohler, Grohe			
20Dash fastener, Expansion BoltHilti, Bosch Fischer21Hydraulic Door closer, Floor springsDorma, Hettich, Hafele, Geze22Ductile Iron Pipe (Water Supply)Electro steel, Kesso, KDUPL, Electro Spun23EPDM GasketHanu, Anand, Lescuyer24GRC / Tactile TileUnistone, Eurocon, Dazzle25Epoxy Grouting CompoundPidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock26Epoxy Primer & PaintsBerger, Pidilite, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrej, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board (False Ceiling)Boral Gypsum, India Gypsum, St. Gobain37HardenerHardcrete of Snowcem India, Pidilite, CICO.38HDPE PipesVECTUS, Emco, Polyfins, Pioneer, Plyfab39Jet Assembly for EWC/Health FaucetParryware , Jaquar, Marc, PRIMA(ISI)40Kitchen Ioft tankSintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics,	18	CPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS			
21Hydraulic Door closer, Floor springsDorma, Hettich, Hafele, Geze22Ductile Iron Pipe (Water Supply)Electro steel, Kesso, KDUPL, Electro Spun23EPDM GasketHanu, Anand, Lescuyer24GRC / Tactile TileUnistone, Eurocon, Dazzle25Epoxy Grouting CompoundPidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock26Epoxy Primer & PaintsBerger, Pidilite, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrej, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board (False Ceiling)Boral Gypsum, India Gypsum, St. Gobain37HardenerHardcrete of Snowcem India, Pidilite, CICO.38HDPE PipesVECTUS, Emco, Polyfins, Pioneer, Plyfab39Jet Assembly for EWC/Health FaucetParryware, Jaquar, Marc, PRIMA(ISI)40Kitchen loft tankSintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC.41Laminate and Veneers	19	Curtain Carrier / Drapery Rod	Marvel, Vista levlor, Johnson.			
22Ductile Iron Pipe (Water Supply)Electro steel, Kesso, KDUPL, Electro Spun23EPDM GasketHanu, Anand, Lescuyer24GRC / Tactile TileUnistone, Eurocon, Dazzle25Epoxy Grouting CompoundPidlilte, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock26Epoxy Primer & PaintsBerger, Pidlilte, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrej, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board (False Ceiling)Boral Gypsum, India Gypsum, St. Gobain37HardenerHardcrete of Snowcem India, Pidilite, CICO.38HDPE PipesVECTUS, Emco, Polyfins, Pioneer, Plyfab39Jet Assembly for EWC/Health FaucetParryware, Jaquar, Marc, PRIMA(ISI)40Kitchen loft tankSintex, Tirupati Structural Ctd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC.41Laminate and VeneersMerino, Greenlam, Kitlam, Duro42Locks / LatchGodrej, Harri	20	Dash fastener, Expansion Bolt	Hilti, Bosch Fischer			
23 EPDM Gasket Hanu, Anand, Lescuyer 24 GRC / Tactile Tile Unistone, Eurocon, Dazzle 25 Epoxy Grouting Compound Pidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock 26 Epoxy Primer & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 27 Fire Check door Navair, Godrej, Shakti 28 Float Glass Mirror Modifloat, Saint Gobain, Asahi 29 Flush Doors (ISI Mark only) Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon 30 Friction Stay Earl-Bihari, Geze, Hettich, Securistyle 31 Galvanized/Stainless Steel Anchor Fasteners 32 GI Pipe & fittings Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only) 33 GI Sheet Sail, TATA, Jindal or equivalent 34 Gun Metal Gate Valve Zoloto, Leader, SANT, Prima 35 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 36 Gypsum Board (False Ceiling) Boral Gypsum, India Gypsum, St. Gobain 37 Hardener Hardcrete of Snowcem India, Pidilite, CICO. 38 HDPE Pipes VECTUS, Emco, Polyfins, Pioneer, Plyfab 39 Jet Assembly for EWC/Health Faucet Parryware, Jaquar, Marc, PRIMA(ISI) 40 Kitchen loft tank Sintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC. 41 Laminate and Veneers Merino, Greenlam, Kitlam, Duro 42 Locks / Latch Godrej, Harrision, Dorma, Doorset (ISI)	21	Hydraulic Door closer, Floor springs	Dorma, Hettich, Hafele, Geze			
24 GRC / Tactile Tile Unistone, Eurocon, Dazzle 25 Epoxy Grouting Compound Pidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock 26 Epoxy Primer & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 27 Fire Check door Navair, Godrej, Shakti 28 Float Glass Mirror Modifloat, Saint Gobain, Asahi 29 Flush Doors (ISI Mark only) Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon 30 Friction Stay Earl-Bihari, Geze, Hettich, Securistyle 31 Galvanized/Stainless Steel Anchor Fasteners 32 GI Pipe & fittings Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only) 33 GI Sheet Sail, TATA, Jindal or equivalent 34 Gun Metal Gate Valve Zoloto, Leader, SANT, Prima 35 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 36 Gypsum Board (False Ceiling) Boral Gypsum, India Gypsum, St. Gobain 37 Hardener Hardcrete of Snowcem India, Pidilite, CICO. 38 HDPE Pipes VECTUS, Emco, Polyfins, Pioneer, Plyfab 39 Jet Assembly for EWC/Health Faucet Parryware , Jaquar, Marc, PRIMA(ISI) 40 Kitchen loft tank Sintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC. 41 Laminate and Veneers Merino, Greenlam, Kitlam, Duro 42 Locks / Latch Godrej, Harrision, Dorma, Doorset (ISI)	22		Electro steel, Kesso, KDUPL, Electro Spun			
25 Epoxy Grouting Compound Pidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock 26 Epoxy Primer & Paints Berger, Pidilite, CICO, BASF, SIKA, Fosrock 27 Fire Check door Navair, Godrej, Shakti 28 Float Glass Mirror Modifloat, Saint Gobain, Asahi 29 Flush Doors (ISI Mark only) Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon 30 Friction Stay Earl-Bihari, Geze, Hettich, Securistyle 31 Galvanized/Stainless Steel Anchor Fasteners 32 GI Pipe & fittings Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only) 33 GI Sheet Sail, TATA, Jindal or equivalent 34 Gun Metal Gate Valve Zoloto, Leader, SANT, Prima 35 Glass Mosaic Tile Bisazza, Italia, Palladio, Mridul 36 Gypsum Board (False Ceiling) Boral Gypsum, India Gypsum, St. Gobain 37 Hardener Hardcrete of Snowcem India, Pidilite, CICO. 38 HDPE Pipes VECTUS, Emco, Polyfins, Pioneer, Plyfab 39 Jet Assembly for EWC/Health Faucet Parryware , Jaquar, Marc, PRIMA(ISI) 40 Kitchen loft tank Sintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC. 41 Laminate and Veneers Merino, Greenlam, Kitlam, Duro 42 Locks / Latch Godrej, Harrision, Dorma, Doorset (ISI)	23					
26Epoxy Primer & PaintsBerger, Pidilite, CICO, BASF, SIKA, Fosrock27Fire Check doorNavair, Godrej, Shakti28Float Glass MirrorModifloat, Saint Gobain, Asahi29Flush Doors (ISI Mark only)Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon30Friction StayEarl-Bihari, Geze, Hettich, Securistyle31Galvanized/Stainless Steel Anchor FastenersShakti, Arrow, Hilti, Fischer32GI Pipe & fittingsTata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)33GI SheetSail, TATA, Jindal or equivalent34Gun Metal Gate ValveZoloto, Leader, SANT, Prima35Glass Mosaic TileBisazza, Italia, Palladio, Mridul36Gypsum Board (False Ceiling)Boral Gypsum, India Gypsum, St. Gobain37HardenerHardcrete of Snowcem India, Pidilite, CICO.38HDPE PipesVECTUS, Emco, Polyfins, Pioneer, Plyfab39Jet Assembly for EWC/Health FaucetParryware , Jaquar, Marc, PRIMA(ISI)40Kitchen loft tankSintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC.41Laminate and VeneersMerino, Greenlam, Kitlam, Duro42Locks / LatchGodrej, Harrision, Dorma, Doorset (ISI)	24					
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42 Locks / Latch Godrej, Harrision, Dorma, Doorset (ISI)			Plastics, Sri Kamakshi Traders, Sreyah Novel InC.			
43 Marine Plywood / BWP Ply Duro, Century, Greenlam						
	43	Marine Plywood / BWP Ply	Duro, Century, Greenlam			

44	Malandina Daliah	Asian Dainta Didilita ICI Dalam Barrara
44	Melamine Polish	Asian Paints, Pidilite, ICI Dulux, Burger
45	Metal False Ceiling	Nitobond, Armstrong, Trac, Durlum, Lafarge, Anutone
46	Mineral Fibre/ GRG Ceiling	Armstrong, Daiken, Anutone, Diamond, Credence
47	M.S. Pipe (Railing)	Jindal, Tata, RINL, Prakash Surya
48	M.S. Tubes	Tata, Apolo, Prakash Surya
49	Multicoat Synthetic Plaster/ Textured	Spectrum, Heritage, Ultratech
	Exterior wall paint	
50	Plywood, Block Board	Greenply, Century, Duro
51	Polycarbonate Sheet	Danpalon (DPI), Bayer, Macrolux
52	Polysulphide / Silicon Sealent	Pidilite, Fosroc, Tuffseal, Chouksey Chemicals, Perma, BASF
53	POP (Plaster of paris)	JK, Laxmi, Sriram Nirman, Sakarni
54	PPR Pipes	SFMC, SAFE, Poineer Industries
55	Precast CC interlocking Tiles	Hindustan, Paver India, KK
56	Precoatd Profile Sheet	Tata, Bhushan or equivalent
57	Pre-laminated Particle Board	Ecoboard, Action-Tesa, Duro, Century Ply, Greenlam, Albihari
58	Pressed steel door frame	M/s Engineers & Fabricator, Raipur, M/s J.K. Enternprises, Jaipur,
		M/s Jangid Engineering Works, Jaipur, M/s Swastik Super
		Industries, Mohali, M/s SKS Steel Industries, New Delhi.
59	PTMT Fittings	Prayag, Polytuf, Pearl, Millennium, PRIMA
60	PVC Cistern	Steelbird, Jindal, Seabird, Prayag, Commander
61	PVC Connection Pipe	Supreme, Prince, Finolex
62	PVC Rain Water Pipe & Fitting	Finolax, Kisan, Kasta, Supreme, Astral, Prince
63	Ready Mix Concrete (RMC)	Lafarge, Alchon, ACC, L&T, Grasim, Ultratech, RMC India
64	Ready Mix plaster	Ultratech, Precisecon Chem, Perma, Ferrous Crete, JK, Fosrock,
65	PVC Shutter	Polygreen, Rajshri, Plastogreen, Sintex
66	PVC Water storage Tank (Only ISI)	VECTUS, Water well, Plasto, Polycon, Sintex. (Weight as per ISI)
67	Sluice Valve	Kirloskar, Venus, Kalpana, SANT, KARTAR, Zolto
68	Solid PVC frames and shutters	Polygreen, Rajshri, Plastogreen, Sintex
69	Stainless Steel	Jindal, Salem or equivalent
70	Stainless steel Sink with or without Draining board.	Nirali, Hindware, Frankee, Neelkanth, Jaquar
71	Stainless steel Door/Window fittings & Fixtures	Dorma, Ozone, D-Line, Hettich, Kich, Geze
72	Structural steel section	TATA, SAIL, RINL, Jindal
73	Super plasticizer / admixture	Sika, Fosroc, Chouksey Chemicals, BASF
74	Tensile Fabric	Bluestone, Encon, Structure Flex
75	Tile Adhesive	Ferrous Crete(Ferro-1122), Ardex Endura (Gold Star), PIDILITE
		(Fevimate XL), WEABR(Saint-Gobin) Sika, Thermoshield, Somany
76	Towel Ring/Towel Rod/Towel Rack	Marc, Jaquar, Kolher, Grohe
77	Tubular steel Window, ventilator,	M/s Engineers & Fabricator, Raipur, M/s J.K. Enterprises, Jaipur, M/s
	Door frame	Swastik Super Industries, Mohali (Punjab) M/s Jangid Engg. Jaipur
78	UPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS
79	Urinal, Washbasin, Orrisa Pattern	Hindware, Parryware, Jaquar, Cera, Kolher, Grohe
	W.C., Wall mounted European	
	W.C.Seat with Cistern	
80	Vitrified Tile	Johnson -Marbonite, Somany, Kajaria, Orient Bell, NITCO, RAK
81	Wall Putty	JK, BIRLA, SARAPUTTY
82	Waste Pipe	Kamal, Viking, Jaquar
83	Water Proofing Compound (Liquid)	Pidilite, Cico, Impermo
84	White Cement	JK White, Birla White, Grasim

List Of Preferre	ed Makes – HVAC & Electrical
Equipment's	Preferred Makes
Vinyl flooring	Armstrong, Gerfloor, Tarkett
Variable Frequency Drive	ABB / Siemens / Fuji / Danfoss
AHU/ TFA	Citizen / Zeco / VTS / Flaktwood / Systemair / Edgetech
Plug Fan	Nicotra Gebhardt / Kruger/ Ziehl-abegg / Greenheck / Flaktwood
Motor (IE-3) for AHU Fan	ABB / Siemens / Crompton
Filters	Thermadyne / Freudenberg / Camfil Farr / AAF
VRV /VRF System	DAIKIN / CARRIER/ TOSHIBA/ MITSUBISHI / HITACHI / OGENERAL
Refrigerant Copper Piping	Maxflo / Rajko / Modern
GSS/GI Sheet	SAIL / Jindal / TATA
Grilles / dampers / diffusers / Louvers / VCD / Fire damper / Motorised Damper	Ruskin/ Caryaire / Systemair / Cynore / Dynamic Equipments / Airflow / Pineair
Fire Damper Actuator	Belimo / Siemens / Honeywell
Nitrile Insulation	Armacell / Aeroflex / K-flex / Supreme
Magnehelic gauge	Dwyer or equivalent
Duct Heater	Daspass / KEPL / Equivalent
Electrical Panels / Switch gears / Switch Socket / DB	L&T/ ABB/ Schneider/ Siemens/ Legrand/ Tricolite/ Adlec Mundka/ Advance / Equivalent.
LED Light Fixture	Philips / Crompton / Havells / Orient / Bajaj / Syska
Current Transformer	AE/Pragati/Gilbert & Maxwell/Matrix/Rishabh/Kappa
Electronic Digital Meter	Enercon System Pvt. Ltd. / CG Schlumberger / L&T / Rishabh
Moulded Case Circuit Breaker (MCCB)	Schneider (NSX) / L&T (D Sine) / Siemens (3VL) / ABB (Tmax) / Legrand
Miniature Circuit Breakers (MCB).	Schneider / L&T / Siemens / ABB / Legrand
Residual Current Circuit Breaker (RCCB)	Schneider / L&T / Siemens / ABB / Legrand
Power/Aux. Contactor	Schneider / L&T / Siemens / ABB / Legrand
Change Over Switch	Schneider / L&T / Siemens / ABB / Legrand
Mataus including Distal Mataus	L&T/ Socomec/ Schneider/
Meters including Digital Meters	Secure/ Siemens/Schneider/ ABB / Rishabh
Protection Relay	Areva/Siemens/L&T/Schneider
Indication lamp and push button	GE/L&T/Siemens/Schneider
Selector Switch	Siemens/ L&T/ Schneider/ABB
Single Phase Preventor	L&T/Minilec/Schneider/ABB

LT Cables / Wire	Havells/ Finolex/ KEI/ Polycab/ RRKabel
Bimetallic Cable Lug	Dowell/Comet/Jainson
Cable Glands Double Compression.	Dowell/Comet/Jainson

SCHEDULE OF QUANTITY

S. No	Item	Unit	Qty	Rate	Amount
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work above plinth level:				
1.1	1:5:10 (1 cement: 5 manufactured sand derived from Recycled Concrete Aggregate (RCA): 10 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA))	Cum	4		
2.0	Half brick masonry 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.				
2.1	Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	24		
3.0	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colors, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	36		
4.0	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
4.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	4		
5.0	12 mm cement plaster of mix:				
5.1	1:6 (1 cement: 6 fine sand)	sqm	50		
6.0	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in colors such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	sqm	15		
7	Providing and fixing ISI marked oxidized M.S. sliding door bolts with nuts and screws etc. complete				
7.1	250x16 mm	each	4		
8	Providing and fixing ISI marked oxidized M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:				
8.1	150x10 mm	each	2		
9	Providing and fixing aluminum die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight up to 35 kg and door width up to 700 mm), with necessary accessories and screws etc. complete.	each	2		
10	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc. all complete.				

10.1	125 mm	each	4	
11	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pretreatment of the surface as directed by Engineer-in-charge:			
11.1	Profile B			
	Fixing with adjustable lugs with split end tail to each jamb	mtr	15	
12.0	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion,(i) Single socketed pipes			
12.1	110mm dia	mtr	100	
12.2	75 mm diameter	mtr	25	
13.0	Providing and fixing on wall face unplasticised - PVC molded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion.			
13.1	bend 87.5 degree			
13.1.1	110mm bend	each	10	
13.1.2	75mm bend	each	5	
13.1.3	Shoe (Plain)			
	110 mm Shoe	each	2	
14.0	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.	sqm	25	
15.0	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:			
15.1	Two or more coats on new work	sqm	25	
16	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ liter of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and color.			
16.1	One coat	Sqm	110	
17	Painting with synthetic enamel paint of approved brand and			
17.1	manufacture to give an even shade: Two or more coats on new work	sqm	25	
18.0	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.			
18.1	20 mm nominal outer dia Pipes	mtr	65	

19.0	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:			
19.1	Angle back wash basin of size 600x480 mm	each	2	
20.0	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 liters with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc. including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	each	2	
21.0	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.			
21.1	15 mm nominal bore	each	4	
22.0	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931			
22.1	15 mm nominal bore	each	8	
23	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.			
23.1	15 mm nominal dia	each	2	
24	Providing and fixing uplasticised PVC connection pipe with brass unions			
24.1	45 cm length			
24.1.1	15 mm nominal bore	each	10	
25	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.	each	2	
26	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-incharge.			
	In cement mortar	Cum	2.76	
27	Providing and fixing aluminum 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 necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminum sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately):			
	Powder coated aluminum (minimum thickness of powder coating 50 micron)	Kg	25	

28	For shutters of doors, windows & ventilators 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)			
	Powder coated aluminum (minimum thickness of powder coating 50 micron)	Kg	50	
29	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 paneling 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 engineer in- charge.			
	Pre-laminated particle board with decorative lamination on both sides	sqm	8	
30	Providing and fixing glazing in aluminum 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 aluminum snap beading shall be paid in basic item):			
	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	6	
31	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 meters lead.			
	For thickness of tiles 10 mm to 25 mm	Sqm	110	
	Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC 0.50 to 0.75 as per IS 8225:1987, Noncombustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanized iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanized mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanized iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. With fully perforated 12 mm thick micro tegular edged or 10 mm	Sqm	110	
33	thick square edged GRG false ceiling tiles. 62 mm thick cement concrete flooring with concrete hardener	sqm	110.00	
<i>J</i> J	topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix: 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 liter per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	34III	110.00	

34	Self levelling of flooring by using fiber-reinforced self-levelling	Sqm	110	
	compound 2mm thick on existing concrete, screeds, stone, ceramic tiles, old and new timber floors, parquet and plywood. Levelling will be done to such extent to provide level surface and no impression of existing flooring will be seen			
35	Extra for providing PVC coving work on edges/corners of room to avoid growth of microorganism by rounding of edges/corners.	mtr	200	
36	Providing and fixing non-asbestos fiber reinforced aerated cement sheet of 10 mm thick on wall/roof/floor oh highly dense weight solid core panels made of cement concrete core composed of OPC cement, pulverized fly ash, quick lime, cotton pulp & Gypsum in mortar state mixed with aeration agent in a preset mold. Fixing of sheet shall be done by stainless steel self-drilling screw required as per direction on engineer-in-charge.	sqm	20.00	
37	Providing and fixing of 2 mm thick homogeneous PVC Vinyl flooring RQ Restorable Quality with a single layer of PVC, total weight is 2800 gm/m2, PUR (polyurethane reinforced, Abrasion group T: ≤4.00 mm, residual indentation approx. 0.03 mm, castor wheel test qualified, dimensional stability ≤0.40%, static electrical charge < 2kv, impact sound reduction approx. +4db, good resistance of scratch, slip, chemical and fire, doesn't favor in growth of fungi & bacteria. Clean Room class A certified. 100% recyclable of any color and welding required at joints as per direction of Engineer-in- charge	Sqm	110	
38	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.			
38.1	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr	250	
38.2	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Mtr	90	
39	Supplying and fixing suitable size GI/PVC 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.	Each	24	
40.1	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) 4 way (4 + 12), Double door	Each	1	
41	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.			
41.1	Single pole	Each	12	
42	Supplying and fixing following rating, four pole 415-volt TPN MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required			
	MCB TPN 63-amp, C Curve	Each	1	

43	Once through Double Deck AHU (OAHU - 100% Fresh air & 100% exhaust with heat recovery unit):-	Each	1		
	Supply Installation Testing & Commissioning of double Skin Horizontal Air Handling Unit complete with,				
	Bottom Deck:- consisting 100% fresh air intake provisions with				
	aluminum dampers on fresh air side and supply air side, all filters				
	flanged type i.e. pre filters (G-4), fine filter (F-9), with double skin				
	(45±2 mm) insulated with CFC free polyurethane foam (PUF)				
	panels of 40 Kg/cum density. Sandwiched between 0.8 mm thick				
	G.I. pre-coated Sheets for Outer skin and internal skin shall be				
	plain G.I of 0.8 mm thick. All frame work shall be with thermal				
	break profile constructed. The blowers shall be backward curved				
	Centrifugal plug fan (with calibrated nozzle for air flow/DP				
	measurement) with driven motor - IE3 (VFD compatible) with minimum IP55 protection. Cushy foot mountings, Inspection LED				
	lamp, door limit switch, SS insulated condensate drain pan made				
	out of SS-304 and standard accessories. The unit shall be				
	comprising of 8 row deep DX cooing coil made out of copper tubing				
	and copper header. AHU to be mounted on adequate RCC cubes				
	with double vibration pad and GI sheet etc. to be considered in				
	scope.				
	UVGI System: - UVGI system shall be designed to cover the entire				
	face area of the cooling coil to achieve near total elimination of				
	bacteria/ virus / biomass on the cooling coil. Required number of				
	UVGI Lamps in the AHU's for the cooling coil area, along with reflector, ballast, junction box, mounting arrangement complete				
	with connections etc. as required. UVGI system shall be installed				
	downstream of the cooling coil.				
	Cross flow type heat exchanger: - The supply and exhaust airflow				
	perpendicular to each other separated by aluminum plates which				
	transfer the heat from one side to the other. Heat transferred from				
	one air flow to another without mixing the air flows. Sensible				
	Efficiency up to 80%.				
	Upper Deck: - consisting 100% exhaust air provisions with				
	aluminum dampers on exhaust air side and return air side, all filters				
	flanged type i.e. pre-filters (G-4), HEPA filter (H-13) sections with double skin (45±2 mm) insulated with CFC free polyurethane foam				
	(PUF) panels of 40 Kg/cum density. Sandwiched between 0.8 mm				
	thick G.I. pre-coated Sheets for Outer skin and internal skin shall				
	be plain G.I of 0.8mm thick. All frame work shall be with thermal				
	break profile constructed. The blowers shall be backward curved				
	Centrifugal plug fan (with calibrated nozzle for air flow/DP				
	measurement) with driven motor - IE3 (VFD compatible) with				
	minimum IP55 protection. Cushy foot mountings, Inspection LED				
	lamp, door limit switch and standard accessories.				
	Supply Air Fan Capacity, CFM: 2400 Return Air Fan Capacity, CFM: 3000				
	DX Cooling Coil Load, TR: 16				
	Total Supply side Static, Pa: 1000				
	Total Return side Static, Pa: 1000				
44	Supply, installation, testing and commissioning of fabricated at site				
	GSS sheet metal rectangular/round ducting complete with				
	neoprene rubber gaskets, elbows, splitter dampers, vanes,				
	hangers, supports etc. as per approved drawings and specifications				
44.1	of following sheet thickness complete as required. Thickness 0.63 mm sheet	sqm	144	+	
45	Supply, installation, testing and commissioning of GI volume	·	2	1	
TJ	control duct damper complete with neoprene rubber gaskets, nuts,	sqm	_		
	bolts, screws linkages, flanges etc., as per specifications.				

46	Supply, installation, testing and commissioning of air diffusers of powder coated aluminum with aluminum volume control dampers	sqm	2	
47	with anti-smudge ring & removable core Supply, installation, testing and commissioning of Fresh / Exhaust air intake louvers made from 3" wide (Minimum 3 MM thickness) powder coated extruded aluminum @ 1" pitch with proper stiffeners complete with HDPE insect mesh fixed in a removable	sqm	1	
	frame as per approved design.			
48	Supply, installation, testing and commissioning of fire dampers in supply air duct/main branch and return air duct as and where required of required sizes i/c control panel, 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 externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications			
48.1	Fire damper	sqm	1	
48.2	Actuator	Each	2	
49	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self-adhesive nitrile rubber tape insulation complete as per specifications and as required.			
49.1	19mm	sqm	79	
49.2	25mm	sqm	79	
50	Supply, installation, testing and commissioning of 0.63 mm aluminum sheet cladding as required complete in all respect with fixing screws etc., for cladding of outside / exposed ducts.	sqm	72	
51	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant flow /Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above 14 HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R 410 A/latest Refrigerant, vibration isolators, outdoor unit frame with suitable foundation, complete with all accessories as required etc. The unit shall deliver the rated capacity at AHRI Conditions and work even at approx. 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5 complete as per the technical specifications. Capacity: 20 HP	Each	1	
52	Supply Installation, Testing & Commissioning of AHU Kit consists of a control PCB, electronic expansion valve, complete with all accessories as required etc. This kit will connect the AHU to the VRF Outdoor Unit.	Each	1	
53	Supply Installation, Testing & Commissioning of Corded Thermostat cum controller for temperature setting and operation, complete with all accessories as required etc. (Dual mode: Cooling & Heating).	Each	1	

54	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of			
	soft/hard drawn copper refrigerant piping for VRV/VRF system,			
	complete with fittings, with suitable adjustable ring type hanger			
	supports, jointing/brazing including accessories, insulated with			
	XPLE Class-O tubular insulation/with Class-O closed cell elastomeric			
	nitrile rubber tubular sleeves sections of specified thickness as			
	given below for Suction and Liquid lines, complete with all			
	accessories as required etc.			
54.1	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with	Mtr	15	
	19 mm thick insulation			
54.2	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with	Mtr	15	
JT.2		ויונו	13	
	19 mm thick insulation			
55	Supply, Installation, testing and commissioning of 40 mm dia	Mtr	20	
	nominal bore 'B' class medium duty G.I. pipe conforming to IS			
	1239 including welding, fittings likes elbows, tees, flanges, tapers,			
	nuts, bolts, gaskets etc. complete in all respect for AHU condensate			
	drain piping with 19 mm thick nitrile rubber insulation, nut-bolts,			
	supports, pipe support block etc. duly installed with 0.63 mm			
	aluminum sheet cladding as required complete in all respect with			
	fixing screws etc.			
56	Supply & Installation of Digital Magnehelic gauge with suitable 24	Each	5	
50		Lacii	,	
	gauge smoothened to 240 grit SS304 face plates & 16-gauge GI			
	Box & PU Tube/ silicon tubing (Range: 30 - 0 - 30 Pa) suitable to			
	install in modular panel with nozzle & complete accessories for			
	clean rooms.			
57	Supply, Installation, Testing & Commissioning of Electric tubular	Each	1	
37		Lacii	1	
	finned Heaters of 12 kW capacity in SS construction and bank wise			
	distribution, duly installed in ducts complete with mounting			
	arrangement, safety thermostat, humidistat for humidity control.			
	arrangement, safety thermostat, humidistat for humidity control,			
	arrangement, safety thermostat, humidistat for humidity control, SSR based control, contactor etc. Heater should be ISI marked.			
58	SSR based control, contactor etc. Heater should be ISI marked.	Fach	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with	Each	1	
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58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection.	Each	1	
58	SSR based control, contactor etc. Heater should be ISI marked. Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing:	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status),	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch.	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF outdoor unit. All outgoings shall be with necessary MCB's,	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF outdoor unit. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF,	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF outdoor unit. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF outdoor unit. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch.	Each	1	
58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF outdoor unit. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 40 Ampere MCCB/16KA 4 Pole for heaters -	Each	1	
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58	Fabrication, Supply, Installation, Testing, Commissioning of Outdoor floor mount type AHU control Panel with following specifications: CRC Sheet of 3.15 mm, Grey Color with Incoming: 1 Incomer -200 Ampere MCCB/16KA 4 Pole. Panel must include R, Y, B Indicator, with 250 ampere aluminum busbar, 1No Digital Multi-Function Metre / Digital Load Manager suitable to connect with Centre Energy Monitoring System/BMS through RS485 connection. Outgoing: Outgoing -2 Nos with 25 Ampere MCB/16KA 4 Pole for supply motor - 4 kW, exhaust motor - 4 kW. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 63 Ampere MCCB/16KA 4 Pole for VRF outdoor unit. All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch. Outgoing -1 Nos with 40 Ampere MCCB/16KA 4 Pole for heaters - 12 kW (three bank distribution). All outgoings shall be with necessary MCB's, contactors, relays, illuminated push button for manual ON & OFF, indication lamps (for ON, OFF, TRIP Status), Auto/Manual selector switch.	Each	1	

	door limit switch, fire damper interlock, supply & exhaust fan			
	interlock, UVGI system and heaters interlocks with AHU).			
	Potential free Contact (for supply motor, exhaust motor, fire			
	damper, heater, humidifier etc.) to be provided for Connections to			
	BMS.			
	Note:-			
	1. VFD (for motor speed control) with inbuilt PID controller for			
	varying the speed of fan, along with DPT (0 to 3000 pa) sensor for			
	measuring DP across fan and providing input to VFD. VFD to be			
	installed/mounted in motor control panel.			
	Capacity of VFD: 4 kW - 1 No. (for Supply motor) & 4 kW - 1 No.			
	(for exhaust motor)			
	2. Provision of MCB / Contactor for UVGI system, AHU limit switch,			
	Fire damper etc. to be considered in AHU control panel.			
59	Supply, laying, Testing and Commissioning of following size XLPE			
29				
	insulated armored Cable (Galvanized wire / strip) 1100 V Grade			
	including end termination with brass compression glands and lugs,			
	saddle / support for cable etc. as required and as per IS 7098			
	(Part 1) 1988 with up to date amendments on surface / cable tray			
	as required and as directed by Engineering in charge (Compulsory			
	ISI marked) (Cables for incoming to AHU control panel & outgoing			
	cables for supply motor, exhaust motor, UVGI, limit switch, fire			
	damper, heater, humidifier etc.			
59.1	armored aluminum cable 3.5 C X 95 sq. mm	Metre	60	
59.2	armored copper cable 4 C X 10 sq. mm	Metre	10	
59.3	armored copper cable 4 C X 6 sq. mm	Metre	5	
59.4	armored copper cable 4 C X 4 sq. mm	Metre	50	
59.5	armored copper cable 4 C X 1.5 sq. mm	Metre	20	
59.6	armored copper cable 2 C X 1.5 sq. mm	Metre	20	
60	Supplying and installing following size of perforated painted with			
	powder coating M.S. cable trays with perforation not more than			
	17.5%, in convenient sections, joined with connectors, suspended			
	from the ceiling with M.S. suspenders including bolts & nuts,			
	painting suspenders etc. as required			
60.1	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	20	
60.2	100 mm width X 50 mm depth X 1.6 mm thickness	Metre	20	
61	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick	Set	1	
	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.			
61.1		Motro	75	1
01.1	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below	Metre	/5	
	ground as strip earth electrode, including connection/ terminating			
	with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall			
	be done by overlapping and with 2 sets of G.I. nut bolt & spring			
	washer spaced at 50mm)		1	

Note: -

- 1. The quantity mentioned above is only estimated/tentative quantity.
- 2. Quantity of items during the contract period may vary on higher side or lower side.
- 3. Submission in any other format may result in cancellation of the offer.
- 4. All tools and tackles to be arranged by the bidder. Nothing will be provided by the Institute.
- Evaluation of Financial bids will be based on total amount (including taxes, freight charges, installation charges etc.) i.e. Quoted by the bidder. No extra amount will be paid to bidder for any activity.
- 6. For Civil works: Bidder shall be enlisted contractor in the appropriate classes and category in CPWD (OR) bidder shall associate with any CPWD enlisted contractor of appropriate class for execution of Civil works after award of work.

7. Heat Load Calculations and Equipment Selection: -

- i) The successful bidder/ contractor should give detailed heat load calculations, immediately after award of work separately for all the seasons in which, the specified conditions are to be maintained.
- ii) The successful Bidder/Contractor should also give the above heat load calculations wherever required separately for the areas served by each AHU in a central air conditioning/heating system.
- iii) The equipment selection and duct design shall be made on the basis of the above heat load calculations wherever required.
- iv) The Contractor can refer and utilize the design done by the department/ consultants for the department, however, there shall be no commitment to provide the same to the contractor, nor the contractor shall be absolved of the responsibility of correct design and performance of the air-conditioning system provided by him.