



## **Notice Inviting Tender**

**Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyaachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air Conditioning work**

**Civil work amount : Rs. 1,46,01,357/-**

**Air Conditioning work amount : Rs. 2,75,18,277/-**

**Total Amount : Rs. 4,21,19,634/-**

**(WORKS DEPARTMENT)**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**

**HAUZ KHAS, NEW DELHI**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS, NEW DELHI-110016**

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**Name of work: - Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyaachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air Conditioning work.**

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**AEE-in-charge AC (Plg)**

**Executive Engineer (CD-III)**

NIT approved for **Rs. 4,21,19,634/- (Rupees Four Crores Twenty-One Lakh Nineteen Thousand Six Hundred Thirty-Four only).**

**Institute Engineer**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS, NEW DELHI-110016**

**Notice Inviting e -Tender**

The Executive Engineer (CD-III), IIT DELHI, HAUZ KHAS, New Delhi-16 (Phone No 011-26596237) on behalf of Board of Governors invite online **Item Rate Tender** from Firms/ Contractors Registered in appropriate class and category with CPWD, MES, BSNL, and Railways for **Civil work /Building works/ Building & Roads/Composite works** of the following work:

NIT No.	:	..... IITD/EE(CD-III)/2025-26
Name of Work	:	<b>Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhychal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi</b> <b>Sub Head: - Civil and Air Conditioning work.</b>
Estimated cost	:	Rs. 4,21,19,634/-
Earnest Money	:	Rs. 8,42,393/- (No exemption allowed)
Performance Guarantee	:	5 % of Tendered value
Security Deposit	:	2.5% of gross work done, limited to maximum up to tender value.
Warranty	:	1 Year for all Civil work & Kitchen Ventilation work <b>5 Years for waterproofing work.</b>
Period for completion	:	<b>10 Months</b>
Last date & time for submission of bids	:	<b>19/03/2026 up to upto15.00 Hrs.</b>
Date & Time of opening of Bids	:	<b>20/03/2026 at 15.00 Hrs.</b>

The bid forms and other details can be obtained from the website [www.iitd.ac.in](http://www.iitd.ac.in) or [e-procure.gov.in](http://e-procure.gov.in) free of cost. For more clarification you may visit on above website.

**Executive Engineer (CD-III),**  
**For & on Behalf of BOG, IIT Delhi**

**Budget Head: Renovation(Research Facility and Housing)/ 35.01.02(IOE)/ (2021/007/0618)**

**Copy to: -**

1. Institute Engineer
2. Executive Engineer (CD-III) for information.
3. D.A. (Works Accounts)
4. D.R. (A/Cs) – for opening of uploaded documents **at 3:00 PM on 20/03/2026** in the office of D.R. Store
5. Notice Boards.
6. Office Copy
7. Web site Administrator, I.I.T.D.

**PART 'A'**  
**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS: NEW DELHI – 110016**  
**IITD/WORKS (SP-5267)/2026**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING (Tender Notice)**

The Executive Engineer (CD-III), IIT DELHI, HAUZ KHAS, New Delhi-16 (Phone No 011-26596237) on behalf of Board of Governors invite online **Item Rate Tender** from Firms/ Contractors Registered in appropriate class and category with CPWD, MES, BSNL, and Railways for **Civil work /Building works/ Building & Roads/Composite works** of the following work:

SL. No.	NIT No.	Name of Work	Estimated Cost (in Rs.)	Earnest Money (in Rs.)	Time for Completion
1	/IITD/EE(CD-III)/2025-26.	Name of work: Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi Sub Head: - Civil and Air Conditioning work.	4,21,19,634/-	8,42,393/-  (to be returned after submission of PG)	<b>10 Months</b>

**Last date and time of submission of financial & Technical bid**

: **19/03/2026 upto 3:00 pm (online)**

**Date and time of opening of Technical bid** : **20/03/2026 at 3.00 pm (office of D.R Store)** Price bids of eligible bidders as per NIT shall be opened at a later date after scrutiny of Technical bids.

1. The successful bidders shall be required to submit a performance guarantee of **5 %** of the tendered amount in the form of Bank Guarantee or F.D.R. from a Nationalized/Scheduled Bank within **15** days of issue of letter of intent before award of work. In case of failure by the Contractor to supply the performance guarantee within the specified period, full earnest money will be forfeited, and the tender shall be treated as void. The performance guarantee shall be initially valid up to the date of completion plus 180 (One hundred eighty days) days beyond that.
2. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
  - i) Firms/Contractors must have completed satisfactorily one similar work of value not less than **Rs. 3,09,69,000/-** or Two similar works each of value not less than **Rs. 2,32,27,000/-** or three similar works each of value not less than **Rs. 1,54,85,000/-** during last 7 years ending on previous day of last day of submission of bids.
  - ii) Earnest money of **Rs. 8,42,393/-** in the form of Banker's cheque or Demand draft or fixed deposit receipt of a schedule bank drawn in favor of **Registrar, I.I.T. Delhi**. No relaxation in EMD will be allowed for MSMEs and MSEs as per CPWD Manual.
3. Similar work means **Composite work consisting of Civil and E&M Work with providing and installation of ducted ventilation or ducted Air-conditioning systems / Units**
4. The intending bidder must read the terms and conditions of IITD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
5. Information and Instructions for bidders posted on website shall form part of bid document.
6. 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 <http://eprocure.gov.in/eprocure/app>.in free of cost.

7. Completion certificates issued by an officer not below the rank of Executive Engineer of similar works completed by the Agency.
8. Work means only work under Government/ Central Public Sector Undertaking / State Public Sector Under Central Autonomous bodies/ State Autonomous bodies/ City Development Authority/ Municipal Cooperation of City formed under any act by Central/ State Government and published in Central/ State Gazette.
9. The value of executed work shall be brought to the current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion **to the last date of submission of the financial bid.**
10. IITD is committed to follow the principle of transparency, equity, and competitiveness in public procurement. Before submission of bid each bidder should sign integrity pact at respective places and submit the bid, if duly signed integrity pact is not submitted by bidder such bid shall not be considered.
11. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
12. The intending bidder must have valid class-III digital signature to submit the bid.
13. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
14. Contractor can upload documents in the form of JPG format and PDF format.
15. Contractor must ensure to quote rate of each item, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
16. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
17. In e-Tendering intending bidder can quote his rates in figures only. The rates in words against amount of each item and total is generated automatically. Therefore, the rate quoted by the bidder in figures will be taken as final.
18. The bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts and towards cost of EMD in favor of **Registrar IIT Delhi** to be deposited with <http://eprocure.gov.in/eprocure/app> / NEFT facility.
19. The physical EMD of the scanned copy of EMD uploaded shall be deposited by the lowest tenderer within a week after opening of financial bid failing which the tender shall be rejected.
20. The following undertaking in this regard shall be up-loaded by the intending bidders: **"The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi"**
21. **Copy of enlistment order and certificate of work experience and other documents as specified in the Press Notice / web notice shall be scanned and up-loaded to the e-Tendering website within the period of bid submission. However, certified / original copy of all the scanned and up-loaded documents as specified in press notice web / notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of e-tendering authority and it shall be sole**

**responsibility of lowest bidder.**

22. **Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited EMD and other documents scanned and uploaded are found in order.**
23. When bids are invited in two /three stages systems and if it is desired to submit revised financial bid it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid – Not applicable.
24. **The bid submitted shall become invalid if:**
  - a. The bidder is found ineligible if he fails to upload documents from 1 to 10 on tender notice page 6.
  - b. The bidder does not upload all the documents (including GST registration) as stipulated in the bid document including the undertaking about deposition of physical EMD of the scanned copy of EMD uploaded etc.
  - c. 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 tenderer in the office of tender opening authority.
  - d. The lowest bidder does not deposit physical EMD within a week of opening of tender.
  - e. The Bidder does not upload ESI & EPF Registration.
25. Bid validity shall be **75 days** from last date of submission of bid.
26. Rate of bidders shall be considered inclusive of GST.

**List of Documents to be scanned and uploaded within the period of bid submission:**

1. Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR of any Scheduled Bank against EMD.
2. Enlistment order of contractor.
3. Certificate of work experience.
4. Certificate of Registration for GST and acknowledgement of up to date filed return of GST.
5. **Affidavit on Rs. 100/- Non judicial Stamp paper as per Notice Inviting Tender Condition 1.3 at page 8 of NIT. (Stamp Paper shall be purchased/ notarized between date of publishing and last date of submission of bids beside this NIT/Tender ID and name of work must be mentioned on the affidavit).**
6. Acceptance to execute INTEGRITY PACT.
7. Undertaking as per ‘**Sl. No. 20 on page No. 5**’ on firm’s letter head.  
**The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi.**
8. ESI & EPF registration.
9. FORM “F” (Duly filled with all required details).
10. In case of Partnership firm if all the papers of tender not signed by all the partners than a power of attorney authorizing the person who has signed the tender paper must be uploaded with the tender documents.
11. Annexure-I (duly filled & signed by the bidders)
12. Annexure-II (duly filled & signed by the bidders)
13. Annexure-III (duly filled & signed by the bidders)

**Note: - All Documents mentioned S.N. 1 to 10 are mandatory for technically qualifying, and documents mentioned 11 to 13 are not mandatory.**

**Executive Engineer (CD-III),  
For & on Behalf of BOG, IIT Delhi  
Hauz Khas, New Delhi-110016**

**Budget Head: Renovation(Research Facility and Housing)/ 35.01.02(IOE)/(2021/007/0618)**

**Copy to: -**

1. Executive Engineer (CD-III) for information.
2. D.A. (Works Accounts)
3. D.R. (A/Cs) – for opening of tenders **on 20.03.2026 at 3:00 PM** in the office of D.R. Store
4. Notice Boards.
5. Office Copy
6. Web site Administrator, I.I.T.D
7. NIT: - Publicity on Website on Institute as well as on CPP portal <http://eprocure.gov.in> may be ensured as per instruction issued.
8. E-tendering Web. <http://eprocure.gov.in/eprocure/app> or [www.iitd.ac.in](http://www.iitd.ac.in)

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS: NEW DELHI – 110016**  
**IITD-6 FOR e-TENDERING AND TERM & CONDITIONS**

Item rate tenders are invited on behalf of Board of Governors from contractors/firms engaged/ register in appropriate category having completed work in appropriate category for the **work** as per tender notice.

1. The enlistment of the contractors should be valid on the last date of submission of tenders. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.
- 1.1 The work is estimated to cost **as per tender notice** this estimate, however, is given merely as a rough guide.
- 1.2 Details of criteria for eligibility As Indicated in “INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE”
- 1.3 To become eligible for issue of tender, the tenderer shall have to furnish an affidavit as under:-  
**I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in IITD 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. (Scanned copy to be uploaded at the time of submission of bid)**
2. Agreement shall be drawn with the successful bidders on prescribed Form No. IITD - 8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **as per tender notice** 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 will be made available in parts.**
5. 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 except Standard General Conditions of Contract Form can be seen from the web Site <http://eprocure.gov.in/eprocure/app> or [iitd.ac.in](http://iitd.ac.in) or [e-procure.gov](http://e-procure.gov) **free** of cost.
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 tender as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
8. If it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.
9. Earnest Money in the form of Demand Draft or Pay order or Banker’s Cheque or Deposit at Call Receipt (drawn in favour of Registrar IIT Delhi, Hauz Khas, New Delhi) as specified of any Scheduled/ Nationalized Bank and shall be scanned & uploaded to the e- tendering website within the period of tender submission or through RTGS/ NEFT with UTR details and original should be deposited by lowest bidder within a week after the opening of financial bid in office of **Executive Engineer (CD-III), IIT Delhi, Hauz Khas, New Delhi**

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lakh, whichever is less, will have to be deposited in shape prescribed above, and balance in shape of Bank Guarantee of any scheduled bank which is to be scanned and uploaded by the intending bidders.

Interested contractor who wish to participate in the bid has also to make following payments in the form of Demand Draft/Pay order or Banker's Cheque of any Scheduled Bank and to be scanned and uploaded to the e-Tendering website within the period of bid submission:

<http://eprocure.gov.in/eprocure/app>.

10. The bid submitted shall become invalid if:
  - (i) The bidders are found not eligible.
  - (ii) The bidders do not upload all the documents (including GST registration/ **other documents as per Tender Notice**) 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 in the office of tender opening authority.
  - (iv) The lowest bidder does not deposit physical EMD within a week of opening of tender.
  - (v) The Bidder does not upload ESI & EPF Registration
11. The time & date of submission & opening of financial bid of contractors qualifying the **criteria as per Tender Notice** shall be communicated to them at a later date.
12. The contractor whose bid is accepted, will be required to furnish performance guarantee of 5 % (Five Percent) of the tendered and accepted of the bided amount within the period specified in Schedule F. 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 of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or irrevocable Bank 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 guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.
13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders 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 tender. A tenderer 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 tenderer 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 tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders 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.
15. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
16. The competent authority on behalf of Board of Governors 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.
17. The contractor shall not be permitted to tender for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

18. 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 afore said before submission of the tender or engagement in the contractor's service.
19. The tender for the works shall remain open for acceptance for a period of **Seventy Five (75)** days from last date of submission of bid, if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.
20. This notice inviting Tender shall form a part of the contract document. The successful tenderer / 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 Tender, 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 IITD Form - 8 or other Standard IITD Form as mentioned.
21. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid.

**Executive Engineer (CD-III)**  
**IIT Delhi, Hauz Khas**  
**New Delhi - 110016**

**NOTICE INVITING TENDER**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**

**HAUZ KHAS, NEW DELHI-110016**

**Terms & Conditions**

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

<b>Details of the item</b>	<b>As per Tender Notice</b>
<b>Earnest Money Deposit to be submitted</b>	<b>Rs. 8,42,393/-</b>
<b>Warranty</b>	<b>As per Tender Notice, NIT &amp; IITD form 8</b>
<b>Performance security</b>	<b>As per Tender Notice, NIT &amp; IITD form 8</b>

Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given in the next page.

No manual bids will be accepted. All quotes (both Technical and Financial should be submitted in the E-procurement portal).

**Schedule**

Name of Organization	Indian Institute of Technology, Delhi	
Tender Type (Open/Limited/EOI/Auction/Single)	Open	
Tender Category (Services/Goods/works)	Works	
Type/Form of Contract (Work/Supply/Auction/Service/Buy/Empanelment/ Sell)	Works	
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Civil and Electrical work.	
Source of Fund (Institute/Project)	<b>Renovation(Research Facility and Housing)/ 35.01.02(IOE)/ (2021/007/0618)</b>	
Is Multi-Currency Allowed	No	
Date of Issue/Publishing	11/03/2026 (15.00 Hrs)	
Document Download/Sale Start Date	11/03/2026 (15.00 Hrs)	
Document Download/Sale End Date	19/03//2026 (15.00 Hrs)	
Date for Pre-Bid Conference	Nil	
Venue of Pre-Bid Conference	---	
Last Date and Time for Uploading of Bids	19/03/2026 (15.00 Hrs)	
Date and Time of Opening of Technical Bids	20/03/2026 (15.00 Hrs)	
Tender Fee	<b>NIL</b>	(To be paid through RTGS/NEFT/Any electronic mode/offline mode. IIT Delhi Bank details are as under: Name of the Bank A/C : Registrar IIT Delhi SBI A/C No. 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code :110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) <b>or as per NIT/ Tender notice</b>
EMD	<b>Rs. 8,42,393/-</b>	
No. of Covers (1/2/3/4)	<b>02</b>	
Bid Validity days (180/120/90/75/60/30)	<b>75 days (From last date of Submission of bid)</b>	
Address for Communication	<b>Office of the Executive Engineer (Civil Division-III), Room No- MZ-137, Main Building, IIT Delhi, Hauz Khas, New Delhi-110016</b>	
Contact No.	<b>011-26596237</b>	
Fax No.	<b>Nil</b>	
Email Address	<b><a href="mailto:a26516@admin.iitd.ac.in">a26516@admin.iitd.ac.in</a> , a26984@admin.iitd.ac.in</b>	

### **Instructions for Online Bid Submission:**

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

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

### **REGISTRATION**

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

### **SEARCHING FOR TENDER DOCUMENTS**

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

### **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.

- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

### **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e., on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) The bidder has to select the payment option as “on-line” to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page No.2).
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

### **OR**

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

- 5) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

### **ASSISTANCE TO BIDDERS**

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

**General Instructions to the Bidders**

- 1) The tenders will be received online through portal <http://eprocure.gov.in/eprocure/app> . In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <https://eprocure.gov.in/eprocure/app> under the link “Information about DSC”.
- 3) Tenderer are advised to follow the instructions provided in the ‘Instructions to the Tenderer for the e- submission of the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>.

### Terms & Conditions Details

S.No.	Specification
1.	<b>Due date:</b> The tender must be submitted on-line before the due date. The offers received after the due date and time will not be considered. No manual bids will be considered.
2.	<b>Preparation of Bids:</b> The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BOQ_XXXX.  OR  Financial Bids to be submitted in Excel.  The Technical bid and the financial bid should be submitted Online.
3.	<b>EMD (if applicable):</b> As per NIT
4.	<b>Refund of EMD :-</b> As per NIT
5.	<b>Opening of the tender:</b> As per Tender Notice, NIT & IITD form 8
6.	<b>Acceptance/ Rejection of bids:</b> The competent authority of IIT Delhi reserves the right to reject any or all offers without assigning any reason.
7.	<b>Pre-qualification criteria:</b> - Mentioned in Tender notice
8.	<b>Performance Security:-</b> Mentioned in Tender notice
9.	<b>Force Majeure :-</b> As per IITD form 8
10.	<b>Risk &amp; Cost Clause :</b> As per IITD form 8
11.	<b>Delivery and Documents:</b> As per Tender Notice & NIT & IITD form 8
12.	<b>Delayed delivery:</b> As per Tender Notice & NIT & IITD form 8
13.	<b>Prices:</b> As per Tender Notice & NIT & IITD form 8
14.	<b>Progress of Work :</b> As per Tender Notice & NIT & IITD form 8
15.	<b>Inspection and Tests:</b> As per Tender Notice & NIT & IITD form 8
16.	<b>Resolution of Disputes:</b> As per Tender Notice & NIT & IITD form 8
17.	<b>Applicable Law:</b> As per Tender Notice & NIT & IITD form 8
18.	<b>Supplier Integrity :</b> As per Tender Notice & NIT & IITD form 8
19.	<b>Training :</b> As per Tender Notice & NIT & IITD form 8
20.	<b>Installation &amp; Demonstration :</b> As per Tender Notice & NIT & IITD form 8

21.	<b>Incidental services: As per Tender Notice &amp; NIT &amp; IITD form 8</b>
22.	<b>Defect liability Period : As per Tender Notice &amp; NIT &amp; IITD form 8</b>
23.	<b>Governing Language : As per Tender Notice &amp; NIT &amp; IITD form 8</b>
24.	<b>Applicable Law : As per Tender Notice &amp; NIT &amp; IITD form 8</b>
25.	<b>Notices : As per Tender Notice &amp; NIT &amp; IITD form 8</b>
26.	<b>Taxes : As per Tender Notice &amp; NIT &amp; IITD form 8</b>
27.	<b>Termination for Default : As per Tender Notice &amp; NIT &amp; IITD form 8</b>
28.	<b>Disputes and Jurisdiction: As per Tender Notice &amp; NIT &amp; IITD form 8</b>
29.	<b>Completion certificate: As per Tender Notice &amp; NIT &amp; IITD form 8</b>

**Bid Submission****Online Bid Submission:**

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained below:-

<b>Bid Document – 1</b>			
(Following documents to be provided as single PDF file)			
<b>Sl. No.</b>	<b>Documents</b>	<b>Content</b>	<b>File Types</b>
1.	Technical Bid	Compliance Sheet as per Annexure – I	.PDF
2.		Organization Declaration Sheet as per Annexure – II	.PDF
3.		List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF
4.		Technical supporting documents in support as per Page-6 of NIT	.PDF
<b>Bid Document – 2</b>			
<b>Sl. No.</b>	<b>TYPES</b>	<b>Content</b>	
1.	Financial Bid	Price bid should be submitted in Excel format.	.xls

**INDIAN INSTITUTE OF TECHNOLOGY, DELHI  
HAUZ KHAS, NEW DELHI -  
110016 NOTICE INVITING  
TENDER**

Item rate tenders are invited on behalf of The Board of Governors, I.I.T. Delhi, Hauz Khas, New Delhi - 16 from approved and eligible contractors of **CPWD** and those of appropriate class of **M.E.S., BSNL and Railway** dealing with **Civil work / Building work/ Building & Road / Composite works** for the work of **Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyaachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air Conditioning work.**

1. The enlistment of the contractors should be valid on the last date of submission of tenders.

In case only the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.

1.1 The work is estimated to cost **Rs. 4,21,19,634/-**-This estimate, however, is given merely as a rough guide.

**1.1.1** The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

For composite bid, besides indicating the combined estimated cost put to tender, should clearly indicates the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

1.2 Intending bidder 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 for CPWD as well as non-CPWD contractors.**

Three similar works each of value not less than 40% of estimated cost or two similar work each of value not less than 60% of estimated cost or one similar work of value not less than 80% of estimated cost (rounded to nearest Rs. 1000/-) **during last 7 years ending on previous day of last day of submission of bids.**

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 **during last 7 years ending on previous day of last day of submission of bids.**

**1.2.2 To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:**

- I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in I.I.T.D 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 Performance Guarantee.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. I.I.T.D 7/8 which is available as I.I.T.D. Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
  3. The time allowed for carrying out the work will be **as per Tender Notice** 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 bid documents.
  4. **The site for the work will be made available in parts.**
  5. 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 except Standard General Conditions of Contract Form can be seen from the web Site [www.iitd.ac.in](http://www.iitd.ac.in) or [e-procure.gov.in](http://e-procure.gov.in) free of cost.
  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 tender as notified.
  7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
  8. If it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice / web notice shall be scanned and uploaded to the tender website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice / web notice shall have to be submitted by the lowest bidder in the office of tendering authority.

Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited tender online fees with and earnest money deposit and other documents scanned and uploaded are found in order. The bid submitted shall become invalid & Tender fees shall not be refunded if:

- (i) The bidder is found ineligible.
- (ii) The bidder does not upload all the documents as stipulated in the bid documents.
- (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 tenderer in the office of tender opening authority.
- (iv) The lowest bidder does not deposit physical EMD within a week of opening of tender.
- (v) The Bidder does not upload ESI & EPF Registration

9. The contractor whose bid is accepted will be required to furnish **performance guarantee of 5% (Five Percent)** of the bid amount within the period specified in Schedule F. 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 irrevocable Bank 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 guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.
10. 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 subsoil (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 bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions 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.
11. The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
12. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
13. The competent authority on behalf of Board of Governors reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to bid for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the IIT Delhi. Any breach of this condition by the contractor would render him liable to be debarred from bidding process in future in IIT Delhi.
15. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed

to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

16. The bid for the works shall remain open for acceptance for a period of **Seventy Five (75) days** from the last date of submission of bid, 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 IIT Delhi shall, without prejudice to any other right or remedy, the bidder shall be debarred for tendering in IIT Delhi for a period of one year.
17. This notice inviting bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

b) Standard IITD Form –7/8 or other Standard IITD Form as mentioned.

18. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and the IIT Delhi shall without prejudice to any other right or remedy, the bidder shall be debarred for tendering in IIT Delhi for a period of one year.

19. **For Composite Bid**

- 19.1 The **Executive Engineer [CD-III]** shall be Engineer-in-charge of the work and will call the bids for the composite work, Earnest Money will be fixed with respect of the combined estimate cost put to tender for the composite bid.

19.2 **The bid document will include following three components: -**

**Part A-** IITD-6, IITD-7 including schedule A to F for the major component of the work. Standard General Conditions of contract for CPWD 2023 as corrected/modified up to date.

**Part B –** General/Specific conditions, specifications and schedule of quantities applicable to major component of the work.

**Part C: -** Schedule A to F for E &M of work I.E. (Institute Engineer/EE in-charge of Civil work shall also be competent authority under clause 2 and clause 5 as mentioned as schedule A to F to Civil work), General/ specific conditions, specifications, and schedule of quantities applicable to E&M work.

- 19.3 The bidder must associate himself with experienced agencies of the appropriate class eligible for bid for each of the E&M work individually.
- 19.4 The eligible bidders shall quote rates for all items of Civil work as well as for all items of E&M work.

- 19.5 After acceptance of the bid by Competent authority, the **EE [CD-III]** i.e Engineer in charge of the work shall issue letter of award on behalf of the Board of Governors, IIT Delhi, after the work is awarded, the main contractor will have to enter into one agreement with **EE [CD-III]** and has also to sign two or more copies of agreement. On such signed set of agreement shall be handed over to AEE (A/C) in charge of E&M work. EE(CD-III) of Civil work will operate part A and AEE(A/C) in charge of E&M work shall operate part B along with Part A of the agreement.
- 19.6 Entire work under the scope of composite bid including major and all E&M shall be executed under one agreement.
- 19.7 The main contractor has to associate agency(s) for E&M work conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency (s) to Engineer-in-charge of E&M work within prescribed time, Name of agency (s) to be associated shall be approved by Engineer-in-charge of E & M work.
- 19.8 In case the main contractor changes any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of the Engineer-in-charge of E & M work. The new agency/agencies shall also have an agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 19.9 **The main contractor has to enter into agreement with contractor(s) associated by him for execution of E&M ventilation work in case the main contractor does not have capability to execute the E&M work.** Copy of such agreement shall be submitted to EE(CD-III) and AEE[A/C] in charge of Civil and **E&M work**. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- 19.10- Running payment for the Civil work shall be processed by EE(CD-III) of major discipline to the main contractor. Running payment of **E&M work** shall be made by AEE [A/C], discipline of **E&M work** directly to the main contractor.
- 19.10A **The composite work shall be treated as completed when all the components of the work are complete and certified. The completion certificate of the composite work shall be recorded by Engineers-in-charge of Civil work after record of completion certificate of all other components.**
- 19.10B **Final bill of whole work shall be finalized and paid by the EE(CD-III) of Civil. AEE (A/C), in charge of E&M work will prepare and pass the final bill for their respective component of work and pass on the same to the EE (CD-III) of Civil work for including in the final bill for composite contractor.**

<b>INTEGRITY PACT e-TENDERING</b>	<b>I.I.T.D</b>
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To,

.....,

.....,

.....

**Subject: - Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air Conditioning work.**

**NIT No. /IITD/EE (CD-III)/2025-26**

Dear Sir,

It is hereby declared that I.I.T.D is committed to follow the principle of transparency, equity, and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer / bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the I.I.T.D.

Yours faithfully

**Executive Engineer (CD-III)**

**ACCEPTANCE TO EXECUTE INTEGRITY PACT****I.I.T.D**

**(To be signed by the bidder and upload the scanned copy)**

**To,**

**Executive Engineer (CD- III)  
IIT Delhi, Hauz Khas, New Delhi – 110016.**

**Subject: - Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air-Conditioning work.**

Dear Sir,

I/We acknowledge that I.I.T.D 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 / bid 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 I.I.T.D. 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, I.I.T.D shall have unqualified, absolute and unfettered right to disqualify the tender / bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorized to

sign the relevant contract on behalf of I.I.T.D.

### **INTEGRITY AGREEMENT**

This Integrity Agreement is made at ..... on this ..... day of..... 20.....

#### **BETWEEN**

The Board of Governors, I.I.T. Delhi, Hauz Khas, New Delhi - 16 represented through Executive Engineer (CD-III) IIT Delhi.

....., (Hereinafter referred as the(Address of Division)

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

#### **AND**

.....(Name and Address of the

Individual/firm/Company) through ..... (Hereinafter referred to as the (Details of duly authorized signatory) "**Bidder/Contractor**" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

#### **Preamble**

WHEREAS the Principal / Owner has floated the Tender (NIT No.....) (Hereinafter referred to as

"**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for

.....

(Name of work) hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

Now, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

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

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

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

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

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- c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
  - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
  - 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
  - 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action, or influencing a decision through intimidation, threat, or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

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

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

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of

Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

#### **Article 4: Previous Transgression**

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

#### **Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors**

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

#### **Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 09 Months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

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

#### **Article 7- Other Provisions**

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

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

**Article 8- LEGAL AND PRIOR RIGHTS**

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

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

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

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

WITNESSES:

1. ....  
(signature, name and address)

2. ....  
(signature, name and address)

Place:

Date:

<b>BANK GUARANTEE BOND</b>	<b>I.I.T. D</b>
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### Form of Earnest Money Deposit Bank Guarantee Bond

WHEREAS, contractor.. .....(Name of contractor) (hereinafter called "the contractor") has submitted his tender dated (date) for the construction of(name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we .....(name of bank) having our registered office at.....(hereinafter called "the Bank") are bound unto.....

(Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. .... (Rs. in words.....) for which payment well

and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this .....day of ..... 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 his first written demand, without the Engineer-in-Charge having to substantiate 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.

DATE .....

WITNESS .....SEAL

SIGNATURE OF THE BANK

(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.

### PERFORMANCE GUARANTEE

- (i) The contractor shall submit an irrevocable Performance Guarantee of 5% (**Five percent**) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) 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 form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- (ii) The **Performance Guarantee shall be initially valid up to the stipulated date of completion plus 180 Days** beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
- (iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the BOG is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
- (a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
- (b) Failure by the contractor to pay BOG any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
- (iv). In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the BOG.

**FORM "F"**  
**STRUCTURE & ORGANISATION**

1. Name & Address of the bidder
2. Telephone no./ Telex no./ Fax no.
3. Legal status of the bidder (attach copies of original document defining the legal status)
  - a. An Individual
  - b. A proprietary firm
  - c. A firm in partnership
  - d. A limited company or Corporation
4. Particulars of registration with various Government Bodies (attach attested photocopy) Organization/ Place of registration and Registration No.
  - 1.
  - 2.
  - 3.
5. Name and titles of Directors & Officers with designation to be concerned with this work  
.....  
!
6. Designation of individuals authorized to act for the organization...  
!
7. Has the bidder or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion?  
If so, give name of the project and reasons for abandonment  
.....  
!
8. Has the bidder or any constituent partner in case of partnership firm, ever been debarred/ blacklisted for tendering in any organization at any time? If so, give details  
.....
9. Past work experience in IIT Delhi will be considered in deciding the Technical bid...  
!

Signature of Bidder(S)

**ANNEXURE-I  
COMPLIANCE SHEET**

**TECHNICAL SPECIFICATION:**

Sr. No.	Technical Bid Requirement As per Tender Notice & NIT & IITD form 8	Compliance Y/N
1	Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR of any Scheduled Bank against EMD.	
2	Enlistment order of contractor.	
3	Certificate of work experience.	
4	Certificate of Registration for GST and acknowledgement of up to date filed return of GST.	
5	Affidavit on Rs. 100/- Non-Judicial Stamp paper as per Notice Inviting Tender Condition 1.3 page 8 of NIT. <b>(Stamp Paper shall be purchased/ notarized between date of publishing and last date of submission of bids beside this NIT/Tender ID and name of work must be mentioned on the Affidavit.)</b>	
6	Acceptance to execute INTEGRITY PACT.	
7	Undertaking as per <b>Page-5/ Sl. No. 20'</b> on firm`s letter head. <b>“The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi”</b>	
8	ESI & EPF registration.	
9	FORM “F” (Duly filled with all required details).	
10	In case of Partnership firm if all the papers of tender not signed by all the partners than a power of attorney authorizing the person who has signed the tender paper must be uploaded with the tender documents.	
11	Annexure-1 (Dully Filled & signed by the bidders)	
12	Annexure 2 (Dully Filled & signed by the bidders)	
13	Annexure 3 (Dully Filled & signed by the bidders)	
14	Any other documents given in NIT	
15	BOQ	

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

**Signature of Bidder**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_

**<< Organization Letter Head >>  
DECLARATION SHEET**

We, \_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been registered as per Tender Notice & NIT & IITD form 8Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	NAME & ADDRESS of the Vendor/ Manufacturer / Agent
1. Phone	<b>As per Tender Notice &amp; NIT</b>
2. Fax	
3. E-mail	
4. Contact Person Name	
5. Mobile Number	
6. GST Number	
7. PAN Number	
8.(In case of on-line payment of Tender Fees) UTR No. (For Tender Fee)	
9.(In case of on-line payment of EMD) UTR No. (For EMD)	

**(Signature of the Tenderer)**

**Name:**

**Seal of the Company**



**PART-B**

INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI - 110016

**Item Rate Tender & Contract for Composite Work**

Tender for the work of **Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air - Conditioning work.**

To be submitted **as per tender notice** to

.....

(i) To be opened in presence of bidders who may be present at **as per tender notice**  
..... in the office of **D.R. (Store)**

Issued to .....

Signature of officer issuing the documents .....

Designation.....

Date of Issue .....

**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 Board of Governors, I.I.T. Delhi, Hauz Khas, New Delhi - 16 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 **Seventy-Five (75)** days from last date of submission of bid.

A sum of **as per tender notice** is hereby forwarded in Banker Cheque or Demand Draft or Fixed Deposit receipt of a schedule bank drawn in favour of IIT Delhi as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said The Board of Governors,

I.I.T. Delhi, Hauz Khas, New Delhi - 16 or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that The Board of Governors, I.I.T. Delhi, Hauz Khas, New Delhi - 16 or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit 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 12.5 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering process of the work.

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**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 I.I.T.D 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.**

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 in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

## ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of the Board of Governors, I.I.T. Delhi, Hauz Khas, New Delhi - 10016 for a sum of

(Rupees...  
 .....  
 ).

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

(a)

(b)

(c)

For & on behalf of Board of Governors, IIT Delhi Signature

.....

Dated:

Designation .....

**SCHEDULES (A to F)****(For Civil and E&M Component)****SCHEDULE 'A'**

Schedule of quantities for **Civil and E&M Work** as attached.

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
-----NIL-----				

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor.

S.No.	Description	Hire charges per day	Place of Issue
1	2	3	4
-----NIL-----			

**SCHEDULE 'D'**

Extra schedule for specific requirement/document for the work, if any. Nil.

**SCHEDULE 'E'**

Reference to General Conditions of contract : GCC for Maintenance work 2023 for CPWD works along with correction on slips/amendments issued up to last date of submission of bid.

Name of Work	:	<b>Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi</b>
Sub Head	:	<b>Civil and Air-conditioning work.</b>
Estimated cost of work:	:	<b>Rs. 4,21,19,634/-</b>
Earnest Money:	:	<b>Rs. 8,42,393/-</b>
Performance Guarantee	:	5 % of tendered Value
Security deposit	:	<b>2.5% of gross work done, limited to maximum up to tender value.</b>

## **SCHEDULE 'F'**

### **GENERAL RULES & DIRECTIONS:**

1. Officer inviting tender : : Executive Engineer [CD-III]
2. 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 : : See Clause-12

### **Definitions:**

- 2(i) Engineer-in-Charge : : Civil Work: Executive Engineer [CD-III]; For E&M Work-A.E.E.-in-Charge, AC Division
- 2(ii) Accepting Authority : : Institute Engineer
- 2(iii) Percentage on cost of materials and Labour to cover all overheads and profits: : : 15%
- 2(iv) Standard Schedule of Rates: : : DSR-2023 for Civil work less Correction Factor on DSR 2023 on account of GST@0.973 + 3% cost Index & Market rate for NS items and DSR-2025 for E&M work with up-to-date correction slip on date of submission of bid & Market Rate.
- 2(v) Department: : : Works department at I.I.T Delhi
- 2(vi) IITD Form & CPWD GCC for Maintenance work 2023, modified & corrected up to last date of submission of bid.

**Clause 1**

- (i) Time allowed for submission of the Performance Guarantee from the date of issue of the letter of acceptance : 15 days
- (ii) Maximum allowable extension with late fee @ 0.1 % per day of Performance guarantee amount beyond the period provided in (i) above, : 1 to 15 days

**Clause 2**

Authority for fixing compensation under Delay: : Institute Engineer

**Clause 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start: : 10 (Ten) days

**MILESTONE CHART**

Sl. No.	Description of milestone (financial terms)	Period for completion from date of start in days/months	Withheld amount for non-achievement of milestone.
1	1/8th (of the whole work)	1/4th (of the whole work)	In the event of not achieving the necessary progress as assessed from the running payment, 1% of the Tender value of work will be withheld for failure of each milestone.
2	3/8th (of the whole work)	1/3th (of the whole work)	
3	3/4th (of the whole work)	3/4th (of the whole work)	
4	Full	Full	

Time Allowed for execution of work : **10 Months**  
 Authority to decide:

- (i) Extension of Time : **Institute Engineer**  
 (ii) Rescheduling of milestones : **Institute Engineer**  
 (iii) Shifting of Date of start in case of Delay in handing over of site : Executive Engineer (CD-III)

**Clause 6** : **CMB** Applicable

**Clause 7**

Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment: **Minimum Rs. 25.00 Lakhs**

**Clause -7A** : **As per Institute Policy**

No running account bill shall be paid for the work till the applicable labour licences, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.

**Clause 10A**

List of testing equipment to be provided by the contractor at site lab : **Not Applicable**

**Clause 10B** : **Applicable**

**Clause 10C**

Component of labour expressed as percent of value of work: **25%** for civil work **& 15% for E&M work**

**Clause 10CA** : **Not Applicable**

S. No.	Material Covered under this clause	Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed	Base Price of all Materials covered under clause 10 CA* (July 2022)
1.	Cement	<b>Not Applicable</b>	
2.	Reinforcement bars		
3.	Structural steel		

**Clause 10CC**

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column

: **Not Applicable**

**Clause 11**

Specifications to be followed for execution of work

:

**CPWD specifications 2019 Vol I and Vol II for civil work** and Electrical General Specification for electrical 2013 (internal and external) Corrected slips & manufacturers Specifications up to the last date of bid submission/uploading of tender. Detailed nomenclature of items & specifications for market rate items as per the Engineer-in-charge.  
CPWD General Specifications for Electrical Works for HVAC Work with other relevant parts as applicable as amended upto date.

**Clause 12****Type of work**

**Maintenance work, including works of up-gradation, aesthetic, special repair, addition/alteration and P&F Kitchen Ventilation system**

12.1 The time for completion of the work shall, in the event of any deviations resulting in additional cost over the tendered value, be extended if requested by the contractor, as follows:

: As per GCC 12.1 (i) & (ii)

12.2 Extra Items and Pricing Extra items are those which are not available in the contract.

: As per GCC 12.2

### 12.3 Deviation, Deviated Quantities, Pricing

All the deviated quantities shall be paid at agreement rates

#### Clause 16

Competent Authority for deciding reduced rates : Institute Engineer

#### Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site : As per requirement

#### Clause 25

Constitution of Dispute Redressal Committee (DRC)	
Chairman	NIL
Member	
Member	

**Note:** The above constitution of the Dispute Redressal Committee is subject to change, for which necessary notification shall be issued by the competent authority of the department, if required.

#### Clause 32

Requirement of Technical Staff(s) & Recovery Rate

Cost of Work (Rs. In Crore)	Requirement of Technical Staff		Minimum Experience (Years)	Designation of technical staff	Rate at which recovery shall be made from the Contractor in the event of not fulfilling the provision of clause 32
	Qualification	Number (of Civil work + E&M work)			
More than 1.5 to 5 Cr.	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project manager cum planning/quality/ Site/billing Engineer	Rs. 15,000/- per month per person

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

Graduate Engineers.

Diploma Holder with minimum 10 years relevant experience with a reputed construction company can be treated at par with graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50 % of requirement of degree Engineer.

**Clause 38**

i)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 with up-to-date correction printed by C.P.W.D.	
ii)	Variations permissible on theoretical quantities	
a)	Cement:	
	For works with estimated cost put to tender not more than Rs.25 lakh.	3% plus/minus. (Three percent)
	For works with estimated cost put to tender more than Rs.25 lakh	2% plus/minus. (Two percent)
b)	Bitumen all works.	2.5% plus & only & nil on minus side
c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% plus/minus (Two percent)
d)	All other materials	Nil

### SPECIAL CONDITIONS

1. Non Judicial stamp paper worth Rs. 100/- (Hundred Rupees only) will be submitted by contractor which will have to be signed as token of acceptance.
2. No T & P shall be supplied by the Institute and contractor will have to make his own arrangement.
3. The contractors are advised to get acquainted with the proposed work including specifications & its site and additional conditions carefully before quoting. No claim of any sort shall be entertained or account of any site conditions and ignorance of specifications & additional conditions. The work shall be carried out as per the availability of site.
4. The work shall be carried out as per CPWD specifications for civil and electrical work with up – to date correction slips unless otherwise specified in the nomenclature of individual item or in the specification, additional conditions where specifications are silent, the decision of Engineer-in-Charge shall be final and binding on contractor.
5. The rates quoted by the contractor shall be taken as net and nothing extra shall be paid on any account i.e Royalty, Cartage, GST & stacking of material required at places etc. The rates for different items of work shall apply for Heights & Depths, Leads & Lifts unless otherwise specified in the agreement or specifications applicable in the agreement.
6. Any damage done by the contractor to any existing item / any part of the building during the course of execution of work shall be made good by at his own cost.
7. Articles manufactured by the reputed firms as per approved make list and as approved by Engineer-in-charge shall only be used at work.
8. The sample of material required in the work brought at site shall be submitted prior technical specification of individual item and got approval of material from Engineer – in-Charge before use in execution of work.
9. All expenditure to be incurred for testing samples e.g. packaging, sealing, transportation, loading, unloading etc., including testing charges shall be borne by the contractor.
10. The contractor shall submit a detailed program of work within 3 days of the date of award of work. The Engineer – in- Charge can modify the program and the contractors have to work accordingly.
11. The contractor shall make his own arrangement for getting the permission with respect to trucks from the Traffic Police.
12. No payment shall be made to contractor for any damage caused by the rain, snowfall or any other natural causes what so ever during the execution of work.
13. Some restrictions may be imposed by the security staff of IIT Delhi etc. on the working and or movement of labour & material. No labour camp/ huts shall be allowed in IIT Campus. The contractor shall make his own arrangement for labour huts outside the campus. However constructions of cement godown and Chowkidar’s hut in the Campus shall be permitted. The contractor shall be bound to follow all such restrictions/ instructions and nothing shall be payable on this account.
14. The contractor shall be fully responsible for the safe custody of the material issued or brought at site by him for doing the work.
15. The Malba / Garbage generated at site due to construction activities shall be removed from the site immediately & shall be disposed of by the contractor to the approved dumping site of MCD and all statutory approvals from local bodies shall be the sole responsibility of contractor.
16. The contractor shall clean the site thoroughly of scaffolding materials, rubbish,

- equipment's left out of his work & dress the site around the building to the complete satisfaction of the Engineer-in-Charge before the work is treated as completed.
17. Contractor has to quote against the item of schedule of credit of material. The contractor cannot quote either minus rate or Zero rate for these items.
  18. Income tax and other taxes as applicable shall be deducted from the bills of the contractor.
  19. 1% labor cess of basic cost (without GST) of work done or as applicable will be deducted from the bills of the contractor.
  20. Water charges @1% and Electricity charges @0.50% of **basic cost (without GST) of work done** shall be deducted from bills of contractor if electricity and water provided by IIT Delhi. If the contractor makes his own arrangements, then nothing shall be deducted on account of electricity and water.
  21. All the necessary deductions will be made on the basic cost (without GST) of work done.
  22. Agency has to take proper safety major during the execution of work.
  23. **GCC form 7/8 shall form part of NIT and the bidder shall go through GCC 2023 CPWD before quoting rates and the same shall be deemed to be accepted by bidder if he participates in the tender.**
  24. The contractor shall submit the program of execution of work as per clause 5 of GCC of IIT form 7/8 of NIT including list of workers to be deployed by contractor for this work.
  25. Contractor shall be responsible for keeping site free of any kind of mosquito breeding. If it is found that breeding is taking place the entire responsibility shall be of contractor to bear challan etc. done by local bodies.
  26. GST shall considered as inclusive in quoted rate of agency.
  27. Electrical work will be executed only through the agency who is having valid electrical license, and the copy of valid electrical license will be submitted before start of work.
  28. For item of water proofing Guarantee Bond shall be submitted by contractor as per format provided by IIT Delhi.
  29. A separate amount @ 10% of the cost of water proofing work shall be retained as a security for the performance of water proofing work. This withheld amount shall be released Five years after the expiry of maintenance period, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within 7 days of receipt of intimation of defects in the water proofing work. If the defects pointed out not attended within the specified period, the same will be got done from other agency at the risk & cost of contractor. This amount shall be in addition to the security deposit mentioned elsewhere in the contract form. The amount withheld may be released in full against bank Guarantee of equivalent amount in favor of the **Registrar, Indian Institute of Technology Delhi** of the prescribed period as mentioned above.
  30. **QUALITY OF MATERIALS**
  - 30.1 All materials and equipment supplied by the contractor shall be new. They shall be of such design, size and materials as to satisfactorily function under the rated conditions of operation and to withstand the environmental conditions at site. **None of the material/ items/ equipment etc supplied shall be more than six months old from date of supply at site.** Copy of GST Gate Pass/ Invoice/ Shipment / Custom Clearance certificate/ details (in case of imported equipment) shall be submitted to prove the date of manufacture & genuineness of the equipment/ machines supplied.
  31. The contractor shall be responsible for keeping the site free of any kind of mosquito breeding. If it is found that breeding is taking place the entire responsibility shall be of contractor to bear challan etc. done by local bodies.
  32. Work shall be executed as per the Architectural drawings and instructions of the Engineer in charge or his representatives. The Architectural drawing and instruction of the Engineer in charge or his representatives shall be strictly adhered to.

33. **Specialized work:** The following work will be treated as specialized work.

- a) SITC of Kitchen Ventilation work with scrubber system.
- b) Waterproofing.
- c) Structural repair works.

The Above Specialized work shall be carried out by specialized agencies/associated agencies /agencies on their own if they have experience of :-

- a) 3 similar works of 40 % value of specialized work component of tendered amount.
- b) 2 similar works of 60 % value of specialized work component of tendered amount.
- c) 1 similar work of 80 % value of specialized work component of tendered amount.

N.B. = Experience of private organization of the specialized work shall be considered on production of TDS certificate for the particular work.

**The bidder should either himself meet the eligibility conditions for the work as above or otherwise he will have to associate an agency meeting the eligibility requirements for specialized works after award of work and has to submit details of such agency(s) conforming to eligibility conditions as defined in the bid document to the Engineer in charge before taking up specific component. Names of the agency(s) to be associated shall be approved by the engineer-in- charge of HVAC Work. The contractor of the appropriate class shall have to associate other agency(s) for the execution of each of the work(s), which fulfils the eligibility criteria as defined after taking prior approval. The Composite Contractor and the associated specialized agencies shall give the required affidavit to confirm their association. Tender accepting authority may approve a change of sub-agency in case it is required during the currency of the contract. However, the composite category contractor shall also be eligible to carry out any or all these works without associating with any specialized agency provided:**

- a) He fulfills the prescribed eligibility criteria respectively for these work(s). OR

He directly procures the equipment of approved make from the manufacturer and gets it installed by an authorized agency/ service provider of the manufacturer or specialized agency as per the criteria mentioned.

The main contractor, if does not fulfil the criteria himself, shall have to associate with a specialized agency fulfilling the following eligibility criteria having completed during last seven years ending up to the previous day of the last date of submission of tender as given below with a completion certificate issued by an officer not below the rank of Executive Engineer or Equivalent duly attested. The Completion certificate should contain the name of the contractor with address, Name of work and location, date of start of work, actual date of completion, amount of work done, satisfactory performance etc.

**FORM OF WATER PROOFING WORKS GUARANTEE BOND ON STAMP PAPER**

This agreement made this.....day of two thousand...  
 .....  
 between  
 M/s..... (Hereinafter called the Guarantor of the one part) and the  
 BOG IIT Delhi (hereinafter called the Govt. of the other part).

Whereas this agreement is supplementary to the contract (hereinafter called the Contract) dated..... Made between the Guarantor of the one part and Govt. of the other part, whereby the contractor inter alia, undertook to render the Buildings and structures in the said contract recited completely water and leak proof.

And whereas the Guarantor agreed to give a guarantee to the effect that the said structure will remain waterproof for **Five years** to be reckoned from the date after the maintenance period prescribed in the contract expires.

During this period of guarantee the Guarantor shall make good all defects and for that matter, shall replace at his risk and cost such members as may be damaged by water and in case of any other defect being found he shall render the building waterproof at his cost to the satisfaction of the Engineer-in- Charge and shall commence the works of such rectification within seven days from the date of issuing notice from the Engineer-in-Charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor’s cost and risk and in the latter case the decision of the Engineer-in-charge as to the cost, recoverable from the Guarantor shall be final and binding.

That if the Guarantor fails to execute the waterproofing or commits breaches hereunder then the Guarantor will indemnify principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the Guarantor in performance and observance of this supplemental agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-charge will be final and binding on the parties.

In witness whereof of these presents have been executed by the Obligor...  
 .....  
 and  
 by..... For and on behalf of the BOG IIT Delhi on the day, month and year first above written.

SIGNED, SEALED and delivered by OBLIGOR in  
 presence of- 1.  
 2.

SIGNED for and on behalf of BOG IIT Delhi by ..... in the presence of-  
 1.  
 2.

*Blanks to be filled by Contractor/EE(CD-III)*

**ADDITIONAL CONDITION**

1. The Contractor shall not store/dump construction material or debris on metalled road.
2. The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.
4. The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
5. The Contractor shall provide all medical help, investigation and treatment to the debris relatable to dust emission workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
6. The contractor shall comply all the preventive and protective environmental steps as stated in the MoE guidelines, 2010.
7. The Contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
8. There shall be no concretization of the trees within one meter of their circumference.
9. The contractor shall always use sufficient warning signs, lighting arrangements, protective tin sheets fencing, notice boards, night watchmen etc. to protect and warn the public to avoid any accidents at site however, any mishap occurs, the contractor shall be fully responsible for providing compensation or to face the legal consequences.
10. The contractor shall arrange and manage the staff, labour and T&P as per the requirement of site conditions. No compensation shall be payable to the contractor or his staff, labour remaining idle due to hindrance in the work or for any business loss, etc. in case o any stoppage of work or delay caused in the start or during progress of work due to any reason whatsoever and there are likely chances of the hindrances in the work. The contractor shall plan the work accordingly. Necessary recovery shall be made for not deploying technical staff as per G.C.C. (General condition of contract).
11. The contractor shall under no circumstances close any road or passage to traffic without the approval of concerned agency and the Engineer-in-charge.
12. DAMAGE FLOODS, RAINS OR ACCIDENT: The contractor shall take all precautions against damage to work by floods, rains, accidents or by any other causes which may occur at site. No compensation will be allowed to the contractor for his tools, plants or materials or executed work, which may be lost or get damaged by floods or rains or from other causes till work is inspected and declared completed by the Competent Authority. The contractor, however, shall be liable to make good any plant or materials of any plant or materials of every description belonging to the department which may be lost or damaged by flood or rains or from any other cause, while under the charge of the contractor.
13. Work shall be carried out in such a manner, so as not to interfere with, or effect, retard or disturb the progress of any other on-going work in the adjoining areas, being executed by any other agency. Proper care should be taken to prevent damage to the overhead/under ground

electricity/gas/telephone/water & sewer line/other service lines etc. if any damages occur necessary restoration and implications will be the sole responsibility of contractor. Any claim arises due to above reasons will be borne by contractor.

14. The tendered /quoted item rate in the "Schedule of Quantities" shall be inclusive of all operations including de-silting /execution in or under water and or foul conditions, difficult site conditions /rehandling/deployment of appropriate machine and man power as per site conditions and nothing extra shall be admissible on any account whatsoever, beyond the quoted item rates of various items.
15. The contractor shall execute the work carefully and safely without any damage to the other structure/ equipment or injury to workman. He shall be fully responsible for any accident/casualty, theft etc. during the execution of this work till its completion.
16. Prevention of Nuisance and Pollution Control: - The contractor shall take all necessary precautions measures to prevent any nuisance or Inconvenience the owners, tenants or occupiers of adjacent properties and the public in general and to prevent any damage to such properties from pollutants like smoke, dust noise etc. The contractor shall use such methodology and equipment so as cause minimum environmental pollution of any kind during the execution of work and minimum hindrance road users and to occupants of the adjacent properties or other services running adjacent/near the vicinity of work. The contractor shall make good at his own cost and to the satisfaction of the Engineer-in-charge, any damage to road, paths, cross drainage works or public or private property whatsoever caused during the execution of the work or by vehicle /traffic brought thereon by the contractor, without any reservation, entirely to the satisfaction of Engineer-in-charge.
17. The executing agency shall take all the measures during the execution of work to prevent air/water/garbage/pollution from the working site. If any or the monitoring agencies point out pollution contribution to the environment or issue challan or other penalty same are to be paid /borne by the working agency. The department in no case reimburse such penalty or be party for such a default.
18. The contractor shall take all adequate safety measures to ensure the safety of all workmen. It shall be the responsibility of the contractor to provide all safety equipments such as gum boots, safety helmets, safety belts, slings, gloves, mask oxygen cylinder, life jackets etc. to all workmen to avoid any mishap at site during the execution of the work. The contractor shall be held solely responsible in case of any mishap at site.
19. The contractor shall have to execute the work in the spirit of Prohibition of Employment as Manual Scavengers & their Rehabilitation Act, 2013 and in consonance with Hon'ble Supreme Court Judgment in WP (C) 583/2003 apart from the safety measures as stipulated under the Labour Laws / CPWD Form 8.
20. The contractor shall have to comply to the rule 3(1) of the PEMS Act 2013, as far as "possible, the intervention of manual cleaning / desilting / collecting of floating material other garbage / domestic waste will be avoided. All the maintenance work of drains will have to be completely switched over to mechanical machinery. If, necessary for the workers to go down in the drain in the context of above referred work, only trained workers will be assigned this job after taking all precautionary safety measures. If the floating materials at some places are not possible to remove by mechanical machinery, then should be removed with the help of "punji or Jely" by manual labour standing outside the drain water.
21. The contractor shall submit a certificate before start of work, that "I am well versed with all safety rules and I will own all the responsibility in case of any mishappening during the execution of work".
22. It shall be the responsibility of the contractor not to cause any damage to existing pipeline/water line/sewer line/telephone line/electric wire line or any such feature in the

drain, if any. In case any such feature is noticed by the contractor during the execution of the work the same shall be brought to the notice of the Engineer-in-charge in writing along with evidence.

23. Safety Code: It shall be responsibility of the contractor to follow Safety Code as per General Condition of Contract and take all safety measures & precaution to prevent any accident /mishap at site during the execution of work by providing all safety equipments to the workmen. In case of any accident at site, the contractor shall be directly held the responsible for the same.
24. The special conditions to comply the directives of Hon'ble NGT and issued vide O.M. No. DG/SE/CM/CIN/Misc./02 shall also form the part of this contract and shall have to be strictly adhered by the contractor during the execution of work for which no extra payment shall be admissible.
25. SITE CLEARANCE: After physical completion of the work, the site shall be cleared off all the malba, construction material, tools and plants, labour huts, cement store or any other temporary construction raised by the contractor during the execution of work, at his own cost. No extra payment shall be made the contractor for the clearance of the site.
26. **The contractor shall visit and thoroughly inspect the site before quoting the rates. The work will be executed in a functioning hostel, and only certain portions of the site will be handed over in phases for carrying out the work. The contractor shall plan and execute the work accordingly. No work shall be carried out during major or minor examination periods, and work will not be permitted late at night. No extra payment, compensation, or claim whatsoever shall be entertained on account of restricted working hours, phased handing over of the site, or stoppage/halting of work during examination periods at any stage.**

It will be the responsibility of the contractor to ensure that no mosquito breeding at site takes place. In case any mosquito breeding is found at site, penalty deemed fit shall be imposed on the contractor.

### **PREFERRED LIST OF MAKES**

1. The material shall be procured as per the preference of Make in India Policy and Government of India circulars/guidelines issued time to time.
2. In case the makes of certain items are missing or not available in the preferred make list, the appropriate make shall be selected with the approval of the NIT/TS approving authority. The NIT approving authority may permit an equivalent or alternate make, provided that proper justification is submitted along with documentary evidence demonstrating the nonavailability of the preferred make. If the approved equivalent or alternate make is of a lower rate, a cost adjustment in the form of recovery shall be applied at the time of approving the alternate or equivalent make. However, if the equivalent or alternate make is of a higher rate than the makes listed in the preferred make list, no cost adjustment shall be made.
3. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies. The Contractor shall make a detailed submittal with catalogues and highlighted proposed specifications, as well as full details of the works proposed to be executed by the specialized agency, as specified.
4. All makes shall further confirm to standard specifications of each item as mentioned in technical specifications of the tender documents.
5. The Engineer-In-Charge shall verify that manufacturers must have valid IS certification as on date for materials wherever applicable

#### **A:- Civil Items**

<b>S. No.</b>	<b>Description</b>	<b>Approved Makes</b>
1	EWC seat covers	HINDWARE/ PARRYWARE/ CERA/ KEROVIT
2	C.P brass fittings/ Accessories	JAQUAR/ MARC/ KOHLAR /KEROVIT
3	PVC Seat Cover	PRAYAG/ POLYTUF/SHAKTI/ PEARL
4	PVC Fittings/ Accessories	PRAYAG/ PRIMA/SHAKTI/ PEARL
5	Cement (Grey) OPC/ PPC Grade-43	ACC/ L&T/J.K/ BIRLA/ULTRA TECH/ VIKRAM
6	Cement (White)	J.K/ BIRLA
7	Reinforcement Steel	PRIMARY MANUFACTURERS APPROVED BY MINISTRY OF STEEL/ SECONDARY MANUFACTURERS HAVING VALID BIS LICENSE (to be as per latest BIS provisions)
8	Structural Steel	PRIMARY MANUFACTURERS APPROVED BY MINISTRY OF STEEL/ SECONDARY MANUFACTURERS HAVING VALID BIS LICENSE (to be as per latest BIS provisions)
9	Stainless Steel (Grade 304)	JINDAL/ SAIL/ SALEM
10	Bricks	COMMERCIALY AVAILABLE OR REQUIRED STRENGTH
11	Aluminum Sections	HINDALCO/ JINDAL/ MAHAVIR
12	Flush doors	CENTURY/ MERINO/ DURO BOARD/ GREEN
13	Laminates	GREENLAM/ DURO/ ARCHID/ MERINO/ CENTURY
14	Glass	SAINT GOBAIN/ MODI FLOAT/ ASAHI FLOAT
15	Ceramic Glazed tiles/ Border tiles	1ST QUALITY KAJARIA/ NITCO/ JOHNSON/ ORIENT/ SOMANY
16	Vitrified Tiles	JOHNSON/ KAJARIA/ ORIENT/ SOMANY
17	Interlocking Precast paver blocks/ Kerb Stone	HINDUSTAN TILES/ SWASTIK/ DALAL
18	Stainless Steel Hinges	JOLLY/ GARG/ AMIT/ ASJ/ SUPREME
19	Stainless Steel Nuts/ Bolts/ Screws	KUNDAN/ PUJA/ ATUL/ GKW
20	Paint/ primer/ oil bound distemper/ Acrylic paint/ plastic paint	1ST QUALITY PAINTS OF ASIAN/ BERGER/ NEROLAC/ SHALIMAR /DULUX

21	Water Proof Cement Paint/ Exterior Paint	1ST QUALITY PAINTS OF ASIAN PAINTS/ BERGER/NEROLAC/ SHALIMAR /DULUX
22	Sanitary ware (Vitreous China) (European Seats, Urinals, Wash Basins, etc.)	HINDWARE/ PARRYWARE/ CERA/ KEROVIT
23	G.I Pipes	TATA / JINDAL(HISSAR)/ BHUSHAN/ APL APPOLO
24	G.I Fittings	UNIK/ ZOLOTO/ AM
25	Stainless Steel Sink	NEELKANTH/ JAINA/ KINGSTON (COBRA)
26	Commercial Board/ PLY	MERINO/ DURO/ GREEN/ CENTURY/ KIT (SWASTIK)
27	CI Pipes/ Fittings	RIF/ NECO/ BENGAL IRON WORKS/ BC/ SKF
28	CI Pipes "Class LA"	NICO/ KESORAM/ ELECTRO STEEL/ KAPILANSH
29	Floor Spring	DORMA/ GODREJ/ HAFELE/ GEZE/ OZONE
30	Door Closer	SANDHU/ HARDWIN/DORMA/ GODREJ/ HAFELE/ GEZE/ OZONE
31	Mirror	ATUL/ MOIGUARD / SAINT GOBAIN/ AASHI
32	Vertical Blinds	VISTA/ MAC/ MARVEL DÉCOR/ SAINT-GOBAIN/DECK DÉCOR
33	False Ceiling	ARMSTRONG/ SAINT GOBAIN/ META WORTH
34	Water proofing compound	SIKA/ FOSROC/ PIDILITE/ ASIAN/BASF/CICO
35	Particle Board	NOVA PAN/ BHUTAN BOARD/ ECO BOARD
36	Adhesive	FEVICOL/ VAMICOL/ DUNLOP/ VAM ORGANIC / kajaria
37	Tile Adhesive	PIDILITE/ FERROUSCRETE/ BALLENDURA/ CICO
38	Wall Putty	BIRLA /JK/ SARA
39	Epoxy Grout	BALLENDURA / KERAKOLL/ FERROUSCRETE
40	PVC Water storage tank (ISI marked)	SINTEX/ UNI PLAST/ POLYWELL
41	PVC insulated Water storage tank Heavy Duty 4/5 layer	SINTEX/ UNIPLAST/ POLYWELL/ EURO
42	Brass Ball Valve/ Gate Valve/ Float Valve / Butterfly valve	ZOLOTO/ AM/ LEADER/ SANT
43	Aluminium Door fittings	CLASSIC/ EVEREST/ ARGENT
44	Brass Bib/ Stop cock	AGI/ ELITE/ SHAKTI/ SANT/ LEADER/ PRIMA
45	Thermoplastic paint	CBM/ CMS/ S.N. INDUSTRIES
46	Plaster of Paris Putty	ADHASHREE/ SHREE RAM/ J.K/ BIRLA
47	RCC Pipe	LAKSHMI/ SOOD & SOOD/ JAIN &Co./ DIWAN SPUN PIPES
48	PVC Pipe	PRAKASH/ PRINCE/ SUPREME
49	Sandwich Roof Panel (Puff Panel)	KAKTUS/ ZEP/ E- PACK/ LLOYED
50	WPC Board and MPC Board	FLORESTA, ECOSTE, RAJ SHREE
51	WPC Door Frame	FLORESTA, ECOSTE, RAJ SHREE
52	Self- Closing Hinges	HETTICH, KITCH, PLUM
53	Poly Carbonate Sheet	GE LEXAN/ POLYGAL/TUFLITE
54	ACP Panel	ALSTRONG /ALUCOBOND / EUROBOND/ ALUDECOR
55	Acoustic Wooden/Fabric Paneling	ARMSTRONG / ANUTONE/ CREDENCE / TOPAKUSTIC
56	Polyvinyl Flooring	ARMSTRONG / POLY FLOR/ TARKETT
57	Glow Stud, Solar Power Stud	ROAD STAR/ 3M/ DARK EYE/ EVERY DENNISON
58	Laminate Wooden Flooring	VISTA/ ACTION TESA/ ARMSTRONG/ PERGO
59	Sun Control Film	3M/ GARWARE/ SAINT GOBAIN
60	Insulation (Mineral / rock wool )	UP TIWAGA LTD / ROCKWOOL IND./ F.G.P.
61	Fire Door	NAVAIR/ SHAKTI/ RADIANT/SIGNUM/PROMAT
62	Flush door Shutters of various thickness	MERINO/ DURO/ GREEN/ CENTURY/ KIT (SWASTIK)
63	Open cell false ceiling	ARMSTRONG /CREDENCE /HUNTER DOUGLAS
64	Calcium silicate false ceiling	AEROLITE, RAMCO, HILUX, USG BORAL
65	Gypsum Board	GYPROC BY SAINT GOBAIN, USG BORAL, ARMSTRONG
66	Fiber Cement Board	EVEREST/ USG BORAL / VISAKA
67	CPVC Pipe Fitting & Solvent	SUPREME/ ASTRAL/ ASHIRWAD / PRINCE / PRAKASH
68	UPVC Pipes & Fittings	SFMC / SUPREME/ FINOLEX
69	UPVC Window	FENESTA / REHAU/ ENCRRAFT/ (NCL Wintech)/ SAINT GOBAIN

70	Friction Stay Hinges	EARL- BIHARI/ EBCO/HETTICH
71	M.S Pipes	JINDAL/ APPOLO/ SWASTIK / TATA / SURYA
72	Gypsum Plaster	FERROUS CRETE (FERRO-500)/ GYPROC (ELITE-100)/ KERAKOL (K-100)
73	GRC Wall Tile / Jali	UNISTONE/ DALAL/ SWASTIK ALWAR / ULTRA
74	HDMR Board	CENTURY/ GREEN/ ACTION TESSA
75	High Pressure Laminate(HPL)	CENTURY/ GREEN / MERINO/TRESPA/ FUNDERMAX
76	Anchor Fastener( Mechanical/ Chemical)	HILTI/ MUNGO/CANON/ FISCHER/ WUERTH
77	Cupboard Lock	PLAZA/ GODREJ/ HETTICH/ HAFLEY
78	Rust remover / Rust converting primer /paint	FOSROC/SIKA/BASF/PIDILITE
79	polymer-based zinc-rich primer	FOSROC/SIKA/BASF/PIDILITE
80	anticorrosive paint	FOSROC/SIKA/BASF/PIDILITE
81	Concrete penetrating HI-TECH Corrosion inhibitor	FOSROC/SIKA/BASF/PIDILITE
82	Thixotropic Epoxy repair mortar	FOSROC/SIKA/BASF/PIDILITE
83	Latex / SBR Polymer Compound	FOSROC/SIKA/BASF/PIDILITE
84	Low viscous epoxy resin grout	FOSROC/SIKA/BASF/PIDILITE
85	Epoxy resin for Concrete bond coat	FOSROC/SIKA/BASF/PIDILITE
86	Pre-batched non-shrink polymer modified mortar	FOSROC/SIKA/BASF/PIDILITE
87	Pre-batched Pre Mixed Non- Shrink Micro Concrete	FOSROC/SIKA/BASF/PIDILITE
88	Pre-batched Pre Mixed Non- metallic composite fiber wrapping system	FOSROC/SIKA/BASF/PIDILITE
89	Epoxy for rebar/shear anchor	FOSROC/SIKA/BASF/HILTI
90	Modular kitchen basket and accessories ( SS-304 Grade)	HETTICH/ KITCH/ PLUM / PECKOCK
91	Manhole cover /Grating	KK MANHOLE / DALAL / SWASTIK / HINDUSTAN
92	laminate wooden flooring	VISTA / ARMSTRONG / ACTION TESSA
93	Engineered wood Flooring	PERGO / JUNKERS / BOEN / SQUARFOOT
94	SS Pipe (304 grade) FOR WATER SUPPLY	JINDAL / TATA / ALFA PRESS / VIEGA
95	Epoxy flooring	FOSROC / SIKA / BASF
96	Aluminum Factory Made System Window	Schueco Aluminum System Window, ETERNIA (HINDALCO), and NCL Alluro System (NCL Buildteck Ltd.
<b>FURNITURE</b>		
97	Workstation	GODREJ INTERIO/ HAWORTH / STEEL CASE/ WIPRO/ FEATHERLITE/ HERMAN MLLER
98	Executive Table/ other table	GODREJ INTERIO/ HAWORTH / STEEL CASE/ WIPRO/ FEATHERLITE/ HERMAN MLLER
99	Chair / Audi Chair	GODREJ INTERIO/ HAWORTH / STEEL CASE/ WIPRO/ FEATHERLITE/ HERMAN MILLER
100	Lab Furniture's	KEWANEE / WALDNER / GODREJ/ WIPRO / FEATHERLITE
101	Hostel beds and cots	ZUARI / EVOK / GODREJ / WIPRO / FEATHERLITE
102	Hospital beds	HUNTLEY / STRIKER /GODREJ /WIPRO /FEATHERLITE

## COMMERCIAL AND ADDITIONAL CONDITIONS FOR KITCHEN VENTILATION

### 1. GENERAL

- 1.1. This specification covers supply and delivery of materials at site, all preparatory work assembly and installation, commissioning and putting into operation of kitchen ducting system with scrubber and air-washer system & final testing & commissioning at site.
- 1.2. Location: 05 Hostels:- **Jwalamukhi, Vindhyachal, Kumaon, Karakoram and Kailash at IIT Delhi.**
- 1.3. The work shall be executed as per CPWD General Specifications for Electrical Works Part-I (Int.) 2013, Part-II (Ext.) 1994, HVAC Work 2017, as amended upto date, relevant I.E. Rules, BIS/IEC and as per directions of Engineer-in- Charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these additional specification and conditions, as the same are to be read along with schedule of quantities for the work.
- 1.4. The tenderer should in his own interest visit the site and get familiarized with the site conditions before tendering.
- 1.5. No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

### 2. TERMS OF PAYMENTS

- 2.1. The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein:-
  - 2.1.1. 80% after initial inspection and delivery at site in good condition on prorata basis.
  - 2.1.2. 10% after completion of installation in all respect.
  - 2.1.3. Balance 10% will be paid after testing, commissioning, trial run and handing over to the department for beneficial use including fire inspection.
- 2.2. Bidder should note that necessary documents (PAN card, Cancelled cheque, GST Reg. proof and RTGS mandate form as per prescribed proforma of IIT Delhi) be submitted as soon as the work is awarded to them. Separate Contractor's Code shall be generated in IIT Delhi if the bidder is a new contractor to IIT Delhi ('Code' is perpetual in nature). Payment shall be processed after submission of Invoice and necessary documents / certificates (as mentioned in the NIT). There is a prevailing practice of pre-audit (for total tendered amount more than 6 lakhs) at IIT Delhi before releasing payment. Bidder shall have to comply all necessary documents as outlined in the Contract as to be desired by the Auditor and or by the accountant. It may take one to two months in the whole process (from submission / acceptance of bill in CMB / MB by the contractor upto processing by Accounts section) to release payment subject to quick compliance of all submittals by the contractor. Applicable Taxes shall be got deducted from the bill as per prevailing orders of the Government. 'GST part of the bill' shall be released after submission of proof of payment of GST, i.e. B2B challan, etc. by the contractor.
- 2.3. Income tax, GST, labour cess & other statutory deduction etc. shall be made at source as per the prevalent laws. The deduction of Security Deposit, Income Tax, etc., shall be done after

calculation for the above due payment as per clause 3.1 above and net payment shall reduce accordingly.

### **3. COMPLETENESS OF TENDER**

- 3.1.** All sundry equipments, fitting, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specially mentioned in the tender documents or not.

### **4. STORAGE AND CUSTODY OF MATERIAL**

- 4.1.** The agency has to make his own arrangement for storage. No separate storage accommodation shall be provided by the department Watch and ward of the storage and their safe custody shall be responsibility till the final taking over of the installation by the department.

### **5. CARE OF THE BUILDING**

- 5.1.** Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste material arising out of the installation from the site of work.

### **6. COMPLETION PERIOD**

- 6.1.** The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc., arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge.

### **7. GUARANTEE**

- 7.1.** The contractor shall guarantee the entire installation as per specifications both for components and for system as a whole. All equipments shall be guaranteed for **one year** from the date of commissioning against unsatisfactory performance and / or breakdown due to defective design, workmanship or material. The equipment or component, or any part thereof, so found defective during guarantee period shall be forthwith replaced free of cost to the satisfaction of the Engineer-in-Charge. In case, it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-Charge in this regard shall be final & binding on the contractor.

- 7.2.** The tenderer shall guarantee among other things, the following:

- 7.2.1.** Quality, strength and performance of the material used as per manufacturer's standards.  
**7.2.2.** Safe mechanical and electrical stress on all part under all specified conditions of operation.

### **8. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS**

- 8.1.** All works shall be carried out in accordance with relevant regulation both statutory and those specified by the Indian Standards related to the works covered by this specification in particular, the equipment and installation will comply with the following:

- 8.1.1. Factories Act
- 8.1.2. Indian Electricity Rules
- 8.1.3. B.I.S. & other standards as applicable
- 8.1.4. Workmen's compensation Act
- 8.1.5. Statutory norms prescribed by local bodies like fire department, CEA, Power Supply Co. etc.

## 9. ERECTION TOOLS

- 9.1. No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tender shall make his arrangement for all these facilities.

## 10. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING

- 10.1. The successful tenderer shall co-ordinate with other working contractors, if any and other occupants of different offices / Labs, etc., and exchange freely all technical information so as to make the execution of this work / contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of work was not under taken by the tenderer himself.

## 11. MOBILIZATION ADVANCE

- 11.1. No mobilization advance shall be paid for this work.

## 12. INTERPRETING SPECIFICATION

- 12.1. In interpreting the specification, the following order of decreasing importance shall be followed in case of contradictions:
  - 12.1.1. Schedule of quantities
  - 12.1.2. Technical Specification
  - 12.1.3. Drawing (if any)
  - 12.1.4. General Specification for Electrical Works of CPWD (relevant Parts)
  - 12.1.5. Relevant BIS or other international code in case BIS code is not available.

## 13. COMPREHENSIVE MAINTENANCE

- 13.1. A separate **supplementary agreement** shall be made with the successful tenderer for sub head "CAMC *including* Routine, Preventive & Breakdown Maintenance" (for 5 years after one year guarantee period i.e. DLP) of schedule of work. The payment of maintenance may be made yearly after successful maintenance. Separate PBG shall be submitted for the maintenance work for the entire period of CAMC plus 6 months more at the rate of 5% of the CAMC amount.

**SPECIAL TERMS AND CONDITIONS**  
**MAINTENANCE SCHEDULE FOR KITCHEN VENTILATION SYSTEM**

**A.** This section covers the maintenance schedule and various recovery rates for not complying maintenance schedule during the contract period.

The maintenance provided during the contract period shall include but not limited to all equipments, labour part and emergency calls providing and site response within 24 hours. However, during the maintenance period, the material including consumable materials shall be arranged by the contractor, if any, replacement is warranted.

1. Free replacing of defective / worn out parts with new or repaired parts for any part, cut outs and other electrical components.
2. Free repairing of equipment like motors, pumps, at site / service station as the case may be
3. Free cleaning of scrubber and fresh air unit as and when required

**B. RECOVERY RATES FOR NON-COMPLIANCES**

The various amounts as mentioned below are the recovery rates to be deducted from the bills payable to the contractor.

Sr. No.	Description of non-compliance	:	Amount to be recovered (Rs.)
1	Routine Monthly checking and visit	:	Rs.6,000.00 per lapse of visit
2	Not repairing / replacing of any other spare parts within 3 days after occurrence	:	To be got done at the risk and cost of the contractor and amount actually spent to be recovered from the bill of the contractor payable or PBG shall be encashed and for continuous inaction, action to be taken as per relevant clause of GCC.

**BID SUBMISSION****ONLINE BID SUBMISSION**

The Online bids (complete in all respect) must be uploaded online in **two** Envelops as explained below: -

<b>Envelope – 1</b>			
(Following documents to be provided as single PDF file)			
<b>Sl. No.</b>	<b>Docum ents</b>	<b>Content</b>	<b>File Types</b>
1.	Technical Bid	Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR of any Scheduled Bank against EMD.	.PDF
2.		Enlistment order of contractor.	.PDF
3.		Attested certificate of work experience.	.PDF
4.		Certificate of Registration of GST and acknowledgment of up to date filed return of GST.	.PDF
5.		<b>Affidavit on Rs. 100/- Non-judicial Stamp paper as per Notice Inviting Tender Condition 1.3 at page 8 of NIT. (Stamp Paper shall be purchased/ notarized between date of publishing and last date of submission of bids beside this NIT/Tender ID and name of work must be mentioned on the affidavit).</b>	.PDF
6.		Acceptance to execute INTEGRITY PACT.	.PDF
7.		Undertaking as per on firm`s letter head. <b>“The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi”</b>	.PDF
8.		ESI and EPF Registration.	PDF
9.		FORM "F" (Duly filled with all required details)	.PDF
10		In case of Partnership firm if all the papers of tender not signed by all the partners than a power of attorney authorizing the person who has signed the tender paper must be uploaded with the tender documents.	PDF
11		Annexure-I (duly filled & signed by the bidders)	PDF
12		Annexure-II (duly filled & signed by the bidders)	PDF
13		Annexure-III (duly filled & signed by the bidders)	PDF
14		Any other documents specified in NIT	PDF
<b>Envelope – 2</b>			
<b>Sl. No.</b>	<b>TYPES</b>	<b>Content</b>	
1.	Financial Bid	Price bid should be submitted in BOQ format.	.Xls

All the above documents shall be as per Tender Notice.

**PART 'C'**  
**SCHEDULE OF QUANTITY**

**Name of work: - Civil Renovation work and kitchen ventilation work in the Kailash Hostel, Karakoram Hostel, Vindhyachal Hostel, Jwalamukhi Hostel and Kumaon Hostel at IIT Delhi**

**Sub Head: - Civil and Air-conditioning work.**

SLNo	Description	Qty	Unit	Rate	Amount
1	<b>Civil Work</b>				
2	By Mechanical Transport including loading,unloading and stacking				
3	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge. Note - Item to be applicable in urban areas having directions for restricted hours for movement/plying of load carrying motor vehicle of 3.5 cum or more.	282	cum		
4	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
5	All kinds of soil	4	cum		
6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
7	All kinds of soil.	118	cum		
8	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:				
9	All kinds of soil				
10	Pipes, cables etc, not exceeding 80 mm dia.	112	metre		
11	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	30	metre		
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lif.	61	cum		

13	Surface dressing of the ground including removing vegetation and in- equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
14	All kinds of soil	530	sqm		
15	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
16	Treatment of soil under existing floors using chemical emulsion © one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement: 2 Coarse sand) to match the existing floor:				
17	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	205	sqm		
18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
19	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	20	cum		
20	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources: 8 graded stone aggregate 40 mm nominal size derived from natural sources)	25	cum		
21	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5 mm nominal size derived from natural sources)	10	sqm		
22	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	6	sqm		

23	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/ Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
24	All works above plinth and upto floor V level				
25	Concrete of M10 grade with minimum cement content of 220 kg /cum	60	cum		
26	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:				
27	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	32	cum		
28	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	1	cum		
29	Centering and shuttering including strutting, propping etc. and removal of form for				
30	Foundations, footings, bases of columns, etc. for mass concrete	31	sqm		
31	Suspended floors, roofs, landings, balconies and access platform	64	sqm		
32	Lintels, beams, plinth beams, girders, bressumers and cantilevers	92	sqm		
33	Columns, Pillars, Piers, Abutments, Posts and Struts	88	sqm		

34	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
35	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1310	kg		
36	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
37	Thermo-Mechanically Treated bars of grade Fe-500D or more.	3652	kg		
38	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
39	Cement mortar 1:6(1 cement :6 coarse sand)	5.55	cum		
40	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
41	Cement mortar 1:4(1 cement :4 coarse sand)	41.22	cum		
42	Cement mortar 1:6(1 cement : 6 coarse sand)	4.2	cum		
43	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.				
44	Cement mortar 1:4(1 cement :4 coarse sand)	117.9	sqm		
45	Extra for providing and placing in position 2 Nos 6 mm dia. M.S. bars at every third course of half brick masonry.	107.1	sqm		
46	Brick work with common burnt clay selected F.P.S. (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement: 6 coarse sand)				
47	Above plinth level upto floor V level	5.15	cum		
48	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
49	Granite stone slab of colour black, Cherry/Ruby red				
50	Area of slab upto 0.50 sqm	14.99	sqm		
51	Area of slab over 0.50 sqm	18.16	sqm		
52	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	20	metre		

53	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, 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.	1430.78	sqm		
54	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
55	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	45.46	sqm		
56	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete (Copper oxidised as per IS 1378)				
57	300x16 mm	11	each		
58	250x16 mm	12	each		
59	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete (Copper oxidised as per IS 1378)				
60	300x20x6 mm	11	each		
61	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete (Copper oxidised as per IS 1378)				
62	125 mm	30	each		
63	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
64	250x10 mm	6	each		
65	150x10 mm	6	each		
66	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
67	125 mm	20	each		
68	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
69	Twin rubber stopper	41	each		
70	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	44	each		

71	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	100	kg		
72	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
73	Using M.S. angels 40x40x6 mm for diagonal braces	8.18	sqm		
74	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
75	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	133.6	kg		
76	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
77	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	46.73	sqm		
78	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
79	25 mm thick	365.63	sqm		
80	Providing gola 75x75 mm in cement concrete 1:2:4(1 cement :2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design :				
81	In 75x75 mm deep chase	513.3	metre		
82	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	27	each		

83	<p>Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.</p>	137.1	sqm		
84	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like difusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p>				

85	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 grns/sqrm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient ) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black Glass fiber acoustical fleece.	170.78	sqm		
86	12 mm cement plaster of mix:				
87	1:4(1 cement: 4 coarse sand)	499.78	sqm		
88	15 mm cement plaster on rough side of single or half brick wall of mix:				
89	1:4(1 cement: 4 coarse sand)	122.38	sqm		
90	Cement plaster 1:3(1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
91	12 mm cement plaster	6.44	sqm		
92	6 mm cement plaster of mix:				
93	1:3(1 cement :3 fine sand)	118.38	sqm		
94	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour:				
95	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	1318.91	sqm		
96	Finishing walls with Acrylic Smooth exterior paint of required shade:				
97	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	161	sqm		
98	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.				
99	100 mm diameter pipes	228	metre		
100	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
101	Two or more coats on new work	110.64	sqm		
102	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.	1386.87	sqm		

103	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
104	Two coats	295.62	sqm		
105	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	527.14	sqm		
106	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
107	With cement mortar 1:4 (1cement: 4 coarse sand)	78.1	sqm		
108	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface including disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.				
109	For door/ window/ clerestory window	2.1	sqm		
110	Dismantling W.C. Pan of all sizes including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge.	1	each		
111	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work-Exposed on wall	116	metre		
112	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
113	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	5.11	cum		
114	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	46.5	cum		
115	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	3.26	cum		
116	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
117	In cement mortar	33.34	cum		

118	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
119	In lime mortar	7.53	cum		
120	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
121	Of area 3 sq. metres and below	32	each		
122	Of area beyond 3 sq. metres	5	each		
123	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	4155.22	kg		
124	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	646.44	kg per metre span		
125	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
126	For thickness of tiles 10 mm to 25 mm	9.6	sqm		
127	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	295.98	sqm		
128	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	1196.66	sqm		
129	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	179.5	cum		
130	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
131	G.S. Sheet	430	sqm		
132	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
133	15 mm to 40 mm nominal bore	105	metre		
134	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:				
135	Up to 150 mm diameter	154	metre		

136	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	1	each		
137	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	128.05	sqm		
138	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer- in-charge.	46.73	sqm		
139	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	206.7	sqm		
140	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer- in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	56	cum		
141	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	126.2	sqm		
142	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	126.2	sqm		

143	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
144	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	each		
145	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
146	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	1	each		
147	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	1	each		
148	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
149	10 litre capacity - White	1	each		
150	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
151	Semi rigid pipe				
152	32 mm dia	1	each		
153	Providing and fixing 100 mm sand cast Iron grating for gully trap.	8	each		
154	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	8	each		
155	Providing and fixing soil, waste and vent pipes :				
156	100 mm dia				
157	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	126	metre		
158	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
159	For 100 mm dia pipe	40	each		
160	Providing and fixing plain bend of required degree.				
161	100 mm dia				
162	Sand cast iron S&S as per IS : 3989	20	each		

163	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
164	100x100x100 mm				
165	Sand cast iron S&S as per IS - 3989	8	each		
166	Providing and fixing single equal plain junction of required degree :				
167	100x100x100 mm				
168	Sand cast iron S&S as per IS - 3989	8	each		
169	Providing and fixing terminal guard :				
170	100 mm				
171	Sand cast iron S&S as per IS - 3989	8	each		
172	Providing and fixing collar :				
173	100 mm				
174	Sand cast iron S&S as per IS - 3989	8	each		
175	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :				
176	100 mm	20	each		
177	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
178	100 mm inlet and 100 mm outlet				
179	Sand cast iron S&S as per IS: 3989	11	each		
180	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
181	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	1	each		
182	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall				
183	20 mm dia nominal bore	105	metre		
184	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
185	15 mm dia nominal bore	185	metre		
186	20 mm dia nominal bore	105	metre		
187	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
188	25 mm dia nominal bore	105	metre		

189	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
190	25 to 40 mm nominal bore	30	each		
191	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
192	25 mm nominal bore	26	each		
193	20 mm nominal bore	26	each		
194	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
195	25 mm nominal bore	26	each		
196	Providing and fixing uplasticised PVC connection pipe with brass unions :				
197	45 cm length				
198	15 mm nominal bore	2	each		
199	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
200	20 mm nominal bore	17	each		
201	25 mm nominal bore	40	each		
202	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
203	15 mm nominal bore	6	each		
204	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	4000	per litre		
205	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
206	15 mm nominal bore	56	each		
207	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
208	15 mm nominal bore	3	each		
209	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
210	15 mm nominal bore	2	each		
211	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	46	each		

212	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
213	150 mm diameter	40	metre		
214	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
215	200 mm diameter S.W. pipe	40	metre		
216	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
217	180x150 mm size P type				
218	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3	each		
219	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :				
220	150 mm diameter	20	metre		
221	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
222	300 mm dia. R.C.C. pipe	30	metre		
223	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
224	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
225	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	8	each		

226	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
227	L D- 2.5				
228	Rectangular shape 600x450 mm internal dimensions	1	each		
229	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
230	For pipes 100 to 250 mm diameter	5	each		
231	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :				
232	Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD - 2.5	4	each		
233	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, 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) :				
234	For fixed portion				
235	Powder coated aluminium (minimum thickness of powder coating 50 micron)	692.15	kg		
236	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)				
237	Powder coated aluminium (minimum thickness of powder coating 50 micron)	412.83	kg		

238	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II, in panelling 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.				
239	Pre-laminated particle board with decorative lamination on both sides	4.8	sqm		
240	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
241	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	77.42	sqm		
242	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer- in-charge.				
243	With stainless steel cover plate minimum 1.25 mm thickness	2	each		
244	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
245	Upto 5 mm depth and 5 mm width	30	metre		
246	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
247	355 X 19 mm	28	each		
248	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge				
249	Powder coated minimum thickness 50 micron aluminium	4	each		

250	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/ structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600				
251	Upto 10 mm depth and 10 mm width	126	metre		
252	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge":				
253	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	1217.45	sqm		
254	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge				
255	25 mm average thickness	61.59	sqm		

256	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
257	Bars upto 12 mm diameter	1074.93	metre		
258	<p>Providing and fixing 50 mm thick sandwich roof puff panel (factory made only) as per specification as follow.</p> <p>A) trapezoidal steel sheet having minimum 30mm crest depth, polyester top coat &amp; alkyd backer. Zinc coating shall be 120g/sqm as per IS-277. Top coat polyester 15-18 microns over 5-7 micron epoxy primer.</p> <p>b) Insulation: High density puff insulation.</p> <p>c) Inner sheet: Colour coated galvanized slightly ribbed. Thickness 0.50mm (TCT) minimum 15-18 micron top coat polyester coating, zinc coating 120g/sqm as per IS-277</p> <p>Grade of steel: Minimum 240 Mpa(both sheets). sheet should have protective guard film of 25 micron minimum to avoid scratches during transportations and should be supplied in single length upto 12 meter or as desired by Engineer-In Charge. the sheet shall be fixed using self drilling/self tapping screws with EPDM seal, completed upto any pitch in horizontal/ vertical or curved surfaces excluding the cost purlins, rafters and trusses and including cutting to size and shape wherever required. work to be executed as per the instructions of Engineer-In-Charge.</p>	28.48	sqm		
259	Drilling and fixing NRV nozzles in RC members, including (fixing material : Renderoc Plug of Fosroc / Sikadur-31 of Sika/ MasterBrace 2200 of BASF or equivalent of Pidilite & Krishna Conchem).Drilling Holes: Drilling 12 mm dia, 50 to 75 mm deep holes or upto required depth in structural members of the intervals of 350 mm in staggered manner or as directed by the Engineer-in-charge in RC structural elements. Cleaning of holes: Clean the holes by air blower prior to fixing nozzles.				
260	Cutting of Nozzles: Cut the nozzles by chisel after completion of grouting without damaging structural elements:	264	Each		

261	Providing mixing & applying pre-batched one component polymer modified dual shrinkage compensated thixotropic cementitious patch repair mortar as per the manufacturer specifications and as per the direction the Engineer-in-charge. The compressive strength of polymer modified mortar shall be $\geq 45$ Mpa (28 Days) according to ASTM C109. ( Product :- Renderock S2 of Fosroc/ SikaTop® 122 -F of Sika / MasterEmaco S 348 of BASF or equivalent of Pidilite)				
262	For 20 mm thickness over slab, beams, columns and stair case slabs	61.59	Sqm		
263	Add/ deduct for every 10 mm thickness	61.59	Sqm		
264	Dismantling of wall tiles/ floor tiles including base plaster of any mix and thickness including stacking serviceable material and disposal of unserviceable material out side the premises.	1137.02	Sqm		
265	Mandana stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
266	25 mm thick	98.97	Sqm.		
267	Providing and fixing C.P. Health Faucet with 1 Mtr long tube & Hook complete as per the direction of Engineer in-charge. (Make - Jaquar (Fusion series)/ Roca- (Victoria Series) or equivalent of Kohler)	1	Each		
268	Providing and fixing stainless steel jali (Grating) with or without hole for waste pipe for floor / Nahni trap. (Make - Chili / Hefle)	18	Each		
269	Providing and Fixing of C.P. Shower Arm with Head approved quality complete as per the direction of Engineer in-charge -(Make - Jaquar/Marc/Kohler) (a) 15mm nominal bore	1	Each		
270	Providing and Fixing of glass corners of size upto 300mmx300mm with necessary cleats and screws etc. complete as per direction of engineer-in-charge. (Make - Jaquar/Marc/Kohler)	1	Each		
271	Providing and laying anticorrosive Treatment of Reinforcement by any approved make rebar corrosion protection system to existing reinforcement (The application shall be by brush). Process is to be complete as per the recommendation of manufacturer and direction of Engineer-in-charge. for payment exposed length of reinforcement will be measured. (Product - NITAZINC PRIMER of FOSROC / Sika MonoTop-1010 IN of Sika/ MasterEmaco P 130 of BASF or equivalent of pidilite & Krishna Conchem).				

272	Bars Upto 12 mm diameter	1074.93	Mtr		
273	<p>Injecting/Grouting shrinkage free low viscosity epoxy resin grout in structural cracks, wherever required by pressure and using mechanized injector gun with accessories till nozzles refused to accept the grout. Epoxy grout material should be conforming to ASTM-881-87 type I, grade I, class B &amp; C and compressive strength of the material shall be <math>\geq 55</math> Mpa, (7 Days), Tensile strength <math>\geq 20</math> Mpa (14 Days) &amp; Bond strength 10 Mpa (14 Days). (Low Viscous epoxy grout : conbextra EP10 of Fosroc/ Sikadur®-52 of Sika/ MasterInject 1315 of BASF or equivalent of Pidilite &amp; Krishna Conchem).</p> <p>(a)Mixing of material : Mixing material components in required quantities as per manufacture's instruction.</p> <p>(b)Grouting : Fill the grouting gun with low viscosity epoxy resin. Maintain desired pressure in the gun by air compressor: maintain the required pressure at exit. Grout the material through prefixed nozzles in structural elements till its refusal, seal the nozzles with epoxy putty after the refusal, monitor leakages through other nozzles while grouting and seal them as per the requirement, repeat the process for all the nozzles. complete the operation within pot life of the material.</p> <p>(c) Cleaning the gun and accessories: Clean the gun and accessories (valves, pipes and other fixture) with thinner after the operation to avoid jamming of the gun.</p>	118.8	Kg		
274	Providing , mixing & applying two comonment Epoxy resin concrete Bonding coat on prepared RCC surface as per manufacture specification including preparation of surface by chipping and thoroughly cleaning of surface complete wherever required and as per direction of Engineer-in-charge.Epoxy material should be conforming to A S T M-881-887 Type 1,Grade 1, class B or C (Product: MasterBrace1414 of BASF/ Sikadur 32LP OF SIKA/Nitobond EP Of fosroc or equivalent of pidilite).	61.59	Sqm.		
275	Providing and placing of 500 Ltr. capacity Grees trap (fixed below the ground of size 1150mm X 939mm X 765 mm), with all arrangement of drain pipe required dia and length to inlet to kitchen or utility area and outlate to existing main sewer line chamber. This includes the cost of cutting, chases and including testing of joints all complete as per direction of Engineer-in-charge.	8	Each.		
276	<b>Credit for dismental items</b>				
277	Credit of dismantle of old iron scrap like steel windows/door frame, MS grills ,MS bars , GI pipe and fitting etc.	4280	kg		

278	Credit of dismantle of old wooden scrap liike old flush doors, wooden frames ,ply board etc	80	Kg		
279	Credit of dismentle of old PVCscrap Like PVC cistern ,PVC tank ptmt fitting etc.	60	kg		
280	Old scrap aluminium sections of various size and thickness.	164.48	kg		
281	Old flush door shutter of various thickness and sizes with fitting etc	9	Each		
282	Old & Dismantaed G.I./ C.I. Pipe & Fittings etc.	194	Meter		
283	Old & Dismantaed PVC/Brass/ fittings	40	Each		
284	<b>E &amp; M Work</b>				
285	<b>FRESH AIR SUPPLY UNIT:</b> Supply, Installation, Testing and Commissioning of <b>DOUBLE SKIN AIR WASHER</b> having specifications as under:- [A] Air filter section comprising 50 mm thick pre air filter made out from washable synthetic fiber with 90 % down to 10 microns. [B] Humidification section comprising of Wet pads 200 mm thick impregnated cellulose paper media. [C] Fan Section comprising of belt driven, 1 no. forward curved DIDW centrifugal fan [D] Suitable capacity TEFC squirrel cage induction motor, IP55, class 'F' insulation, IE3 Efficiency, suitable for 415 V + 10% volts three phase 50 cycles AC supply ,required with pulley, belt, belt guard etc. [E] The unit shall be fabricated with frame work hollow extruded aluminum profile with 0.6 mm pre-plasticized GSS on outside and 0.6 mm plain GSS on inside complete with 25 mm thick CFC free PUF insulation of minimum 38 kg/cum density sandwiched in between inner and outer skins, SS -304 ( 18 g ) Sump tank, 'B' class GI piping for make up, drain & quick fill connections etc. complete with volume control damper inbuilt [F] 1 no.suitable HP rating monoblock Pumps of suitable discharge and head (1 Working ) for water circulation [G] all related plumbing accessories such as butterfly valve, gate valve, ball valve, NRV, Y strainers, pipe connections, elbow, union ,Tee, nipple, C section channel for for motor & blower mounting, anti vibration pads etc. [H] all safety devices like safety limit switch , marine light , inspection view glass . Suitably designed for variable frequency drive as well as star-delta applications complete with attached specifications. <b>[Acceptable Make: Zeco / INCLEAN / Waves / Edgetech / REVO]</b>				
286	Not less than 16,500 CFM, 45 mmWG Static Pressure (for Kumaon and Vindhyachal Hostel)	2	Each		
287	Not less than 20,000 CFM, 45 mmWG Static Pressure (for Jwalamukhi Hostel)	1	Each		
288	Not less than 10,000 CFM, 45 mmWG Static Pressure (for Kailash Hostel)	1	Each		
289	Not less than 16,000 CFM, 45 mmWG Static Pressure (for Karakoram Hostel)	1	Each		

290	<p><b>EXHAUST UNIT (DRY SCRUBBER):</b> Supply, Installation, Testing and Commissioning of factory built floor mounted Dry type double skin horizontal / vertical exhaust scrubber unit made of 25 mm thick panels consisting of pre-plasticized G.I. casing of thickness not less than 0.6 mm outside layer and 0.8 mm inside layer with suitable insulation factory injected between them by injection moulding machine, complete with blower section with DIDW backward curved blower suitable for static pressure as required, <b>ESP (Electrostatic Precipitator)</b> Cells comprising ionisation electrode, collection plates, collection trays, suitable number of plates per cell capable of handling CFM as per scrubber design rating, ability to capture particles from 0.01 to 10 micron size, filtration efficiency: 95±2% down to 0.5 micron size particles as per ISHRAE standard, door limit switch, filter sections with aluminium wire mesh type pre and post filters, belt drive package with TEFC drive motor of efficiency class IE3 suitable for 230 / 415 ±10% volts, 50 Hz, 1/3 phase ac supply suitably designed for star-delta applications, necessary vibration isolation arrangement etc., Volume control damper, canvas connection as applicable complete as per specifications including canvas connection and of following capacities.  <b>[Acceptable Make: REVO / Edgetech / Zeco / INCLEAN / Waves]</b></p>				
291	Not less than 18,000 CFM, 75 mmWG Static Pressure (for Kumaon & Vindhyachal Hostel)	2	Each		
292	Not less than 21,000 CFM, 75 mmWG Static Pressure (for Jwalamukhi Hostel)	1	Each		
293	Not less than 11,000 CFM, 75 mmWG Static Pressure (for Kailash Hostel)	1	Each		
294	Not less than 8750 CFM, 75 mmWG Static Pressure (for Karakoram Hostel)	2	Each		
295	<p><b>GI DUCTING:</b> Supplying, installation, balancing and commissioning of <u>fabricated at site</u> GSS sheet metal rectangular/ round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, bends, transitions, reducers, end caps, collars etc as required complete in all respect in confirmation with IS : 655 and approved drawings and specifications of following sheet thickness complete as required. (Ducting layout drawing and its design to be got approved by E-in-C before fabrication and erection)</p>				
296	Thickness 0.80 mm sheet	600	Sqm		
297	Thickness 1.00 mm sheet	420	Sqm		

298	<b>GI DUCTING:</b> Supplying, installation, balancing and commissioning of <u>factory fabricated</u> GSS sheet metal rectangular/ round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, bends, transitions, reducers, end caps, collars etc as required complete in all respect in confirmation to IS : 655 and approved drawings and specifications of following sheet thickness complete as required. (Ducting layout drawing and its design to be got approved by E-in-C before fabrication and erection) [ <b>Acceptable Make: Ductofab / Zeco / Waves / Dustech</b> ]				
299	Thickness 0.80 mm sheet	600	Sqm		
300	Thickness 1.00 mm sheet	420	Sqm		
301	<b>Duct Thermal Insulation:</b> Supplying and fixing of following thickness duly laminated aluminium 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. ( <b>Suggested make: Armaflex / Aerofoam / Aflex or superior similar</b> )				
302	19 mm	950	sqm		
303	<b>Air Supply Grill:</b> Supplying, Fixing, installation, testing and commissioning of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers in confirmation to SMACNA/IS and as per specifications of HVAC complete etc. as required.	26	sqm		
304	Supplying, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc in confirmation to SMACNA/IS and as per CPWD specifications of HVAC complete etc. as required.	11	Sqm		
305	Supplying and fixing of fire retardant with GSS (galvanised sheet steel) flange as per BS 467 canvass connection for duct as per specifications as required. ( <b>Suggested make: Airflow / Sphere or similar superior make</b> )	10	Sqm		
306	<b>Exhaust Hood:</b> Supplying, fabricating and installation of SS 304, 18 SWG thick (minimum) box type kitchen exhaust hood with not less than 20 SWG, SS 304 baffle filters, oil tray and marine light arrangement having compatibility with the size of the existing oven as per norms etc. complete with connections with the exhaust duct (for wall mounting or island type as applicable) complete as required.	80	Metre		

307	<b>Minor Civil Work:</b> Making Wall Punching, fixing and water proofing for duct entrance, making foundation base for scrubber and Air Washer unit and mending good the damages during erection work etc. complete as required. (1 job means - complete work per one Hostel)	5	Job		
308	<b>MS Supports:</b> Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm or 50 x 50 x 5 mm, joints mitred and welded by angle iron 35x35x5 mm or 50 x 50 x 5 mm as required or 35x 5 or 50 x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	1650	Kg		
309	<b>Scaffolding Arrangement:</b> Making temporary scaffolding arrangement for fixing of duct and other accessories for height upto 20 metre as required including removing the same after completion of erection as required. (1 job means - scaffolding per hostel)	5	Job		
310	Supplying and laying of ISI marked XLPE / PVC insulated stranded copper conductor armoured cable of 1.1 KV grade of following size on existing cable tray / surface suitably clamped with termination with copper lugs at both ends as required. <b>(Suggested make: Polycab / Havells / Gloster / RR Kabel / Finolex / KEI / Universal / Rallison)</b>				
311	3 Core x 1.5 sqmm	1250	Metre		
312	3 Core x 6 sqmm	340	Metre		
313	3 Core x 10 sqmm	915	Metre		
314	4 core x 16 sqmm	510	Metre		
315	Supplying and laying of XLPE / PVC insulated stranded aluminium conductor armoured cable of 1.1 KV grade of following size on existing cable tray / surface suitably clamped with termination with copper lugs at both ends as required. <b>(Acceptable make: Polycab / Havells / Gloster / RR Kabel / Finolex / KEI / Universal / Rallison)</b>				
316	3.5 core x 50 sqmm	350	Metre		
317	Supplying and making end termination with brass compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.				
318	3 Core x 1.5 sqmm	60	Each		
319	3 Core x 6 sqmm	60	Each		
320	3 Core x 10 sqmm	24	Each		
321	4 core x 16 sqmm	24	Each		
322	3.5 core x 50 sqmm	10	Each		

323	<p><b>GI Tray Support:</b> Supplying and installing following size of perforated Hot Dipped Galvanised Iron Cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended / supported from the ceiling / wall with GI suspenders including GI bolts and nuts, GI C-Channels, etc. including GI protective sheet covering outside the room as required. (Acceptable make: JMB / Zenith / NCR / SLOTCO or similar superior make)</p>				
324	225 mm width x 50 mm depth x 1.6 mm thickness	230	Metre		
325	<p>Fabrication, supplying, installation, testing &amp; commissioning of <b>double door outdoor type</b> electrical control panel of cubicle construction, floor / wall mounted type, fabricated out of 2 mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection, having switchgears and accessories mounting and internal wiring, earth terminals, numbering etc. complete in all respect as per following, suitable for operation on 415 V, 3 Phase, 50 Hz a.c supply with enclosure protection class IP 42 as required. Size of Panel shall be not less than 1200 mm x 1800 mm x 500 mm (Depth) or equivalent. INCOMER</p> <p>[a] <b>100 amp 4Pole MCCB, 25 kA</b> with rotary handle, spreader terminal, adjustable thermomagnetic release 80 - 100%; conforms to IS/IEC 60947-2</p> <p>[b] 3 Phase Digital Voltmeter, Class 1</p> <p>[c] 3 Phase Digital Ammeter, Class 1 with CTs etc.</p> <p>[d] Set of 3 phase indicating lamps</p> <p>[e] Set of copper busbar of <b>25 x 5 mm size</b></p>				
326	<p>OUTGOING:</p> <p>[a] Fresh Air UNIT: 40 amps. 4 pole MCCB, 25 kA adjustable thermomagnetic release 80 - 100%; conforms to IS/IEC 60947-2 including rotary handle with suitable automatic star / delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for auto / manual / OFF operation, illuminated push button etc.</p> <p>[b] Dry Scrubber Unit: <b>63 amps. 4 Pole MCCB, 25 kA adjustable thermomagnetic release 80 - 100%; conforms to IS/IEC 60947-2</b> including rotary handle with suitable automatic star / delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for auto / manual / OFF operation, illuminated push button etc.</p> <p>[c] Other Controls 4 nos. 6 amp DP MCB for ESP filter and pumps, with other controls as required</p>	4	Set		

	Bus bar chamber with suitable size cable alleys, bolted type heavy duty terminals (Suggested make of Panel: Adlec / APG / Zenith / Neptune / Milestone or any CPRI approved) (Suggested make of Switchgear: Havells / L&T / Legrand / ABB / C&S / Siemens / Schneider or similar superior) [The panel drawing shall be got approved by the Engineer-in-charge before manufacturing]				
327	<p>Fabrication, supplying, installation, testing &amp; commissioning of <b>double door outdoor type</b> electrical control panel of cubicle construction, floor / wall mounted type, fabricated out of 2 mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection, having switchgears and accessories mounting and internal wiring, earth terminals, numbering etc. complete in all respect as per following, suitable for operation on 415 V, 3 Phase, 50 Hz a.c supply with enclosure protection class IP 42 as required. Size of Panel shall be not less than 1200 mm x 1800 mm x 500 mm (Depth) or equivalent.</p> <p>INCOMER</p> <p>[a] <b>100 amp 4Pole MCCB, 25 kA</b> with rotary handle, spreader terminal, adjustable thermomagnetic release 80 - 100%; conforms to IS/IEC 60947-2</p> <p>[b] 3 Phase Digital Voltmeter, Class 1</p> <p>[c] 3 Phase Digital Ammeter, Class 1 with CTs etc.</p> <p>[d] Set of 3 phase indicating lamps</p> <p>[e] Set of copper busbar of <b>25 x 5 mm size</b></p>				
328	<p>OUTGOING:</p> <p>[a] Fresh Air UNIT: 40 amps. 4 pole MCCB, 25 kA adjustable thermomagnetic release 80 - 100%; conforms to IS/IEC 60947-2 including rotary handle with suitable automatic star / delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for auto / manual / OFF operation, illuminated push button etc.</p> <p>[b] Dry Scrubber Unit: for Two <b>40 amps. 4 Pole MCCB, 25 kA adjustable thermomagnetic release 80 - 100%; conforms to IS/IEC 60947-2</b> including rotary handle with suitable automatic star / delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for auto / manual / OFF operation, illuminated push button etc. - 02 set</p> <p>[c] Other Controls 6 nos. 6 amp DP MCB for ESP filter and pumps, with other controls as required</p> <p>Bus bar chamber with suitable size cable alleys, bolted type heavy duty terminals (Suggested make of Panel: Adlec / APG / Zenith / Neptune / Milestone or any CPRI approved) (Suggested make of Switchgear: Havells / L&amp;T / Legrand / ABB / C&amp;S / Siemens / Schneider or similar superior) [The panel drawing shall be got approved by the Engineer-in-charge before manufacturing]</p>	1	Set		

329	Dismantling the existing old and damaged ducting, other external units including removing the same from existing position to any space inside the IITD campus etc. as required. (1 job means - work per hostel)	4	Job		
330	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in sheet steel enclosure including drilling holes, duly factory painted as required, making connections, providing spreader terminal, etc. as required. (Acceptable make: Havells / Legrand / L&T / C&S / ABB / Siemens / Schneider) For main power connection. (Similar readymade enclosure reference: L&T cat No. CM909960000)				
331	100 A, 36 kA, FPMCCB (4 Pole)	5	Each		
332	Supplying and fixing weather proof enclosure of size not less than 300 x 350 x 205 mm on wall surface having openable arrangement (in built hinges), pad locking provision, front door locked with rust proof hardware, silicon gasket between front door and enclosure for sealing, cable entry holes with blank plate, IP-67 category fitted with 2 x 40 amp TPMCB C-series and 1 x 6 amp DP MCB C-series with DIN bar and channel complete with connections, testing and commissioning etc. as required.	10	Each		
333	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	5	Each		
334	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	250	Metre		
335	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	770	Metre		
336	Providing and fixing earth bus of 50 mm X 5 mm copper strip of not less than 0.5 metre (500 mm) long on surface with necessary holes on proper base for connections etc. as required. (all earth connections shall be tapped from this bus)	5	Metre		
337	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/cable as required.	1425	Metre		
338	<b>Sub Head -2 (Comprehensive Maintenance)</b>				

339	Comprehensive maintenance including routine, preventive and breakdown maintenance of the entire ventilation system of five hostels including routinely cleaning of filters, checking and maintenance of other accessories for smooth running during the defect liability period of 12 months from the date of commissioning of the system. No payment shall be done during DLP.				
340	Comprehensive maintenance including routine, preventive and breakdown maintenance of the entire ventilation system of five hostels (locations) including routinely cleaning of filters, checking and maintenance of other accessories for smooth running during the defect liability period of 12 months from the date of commissioning of the system. Materials / spares required to be replaced or repaired shall be got done by the contractor. No payment shall be done by the Institute. Maintenance to be done as per maintenance schedule. N.B. - Replacemnt of filters are within the scope of contractor				
341	2nd year (1 Job means for a period of 12 months)	1	Job		
342	3rd year (1 Job means for a period of 12 months)	1	Job		
343	4th year (1 Job means for a period of 12 months)	1	Job		
344	5th year (1 Job means for a period of 12 months)	1	Job		
345	6th year (1 Job means for a period of 12 months)	1	Job		

**Special Conditions: -**

1. No labour huts shall be allowed in IIT Campus, and nothing shall be paid extra on this account.
2. The contractor must visit the site of work /buildings before quoting the rates.
3. No labour to stay in IIT Campus nothing shall be paid extra on this account.
4. Site shall be available in parts or phases as per directions of Engineer in Charge and nothing extra on this amount shall be paid to contractor.
5. Quoted rates of participating agencies shall be inclusive of GST.
6. The rates for different items of work shall apply for all heights & depths, Leads & Lifts and nothing extra shall be paid on these accounts.
7. Engineer-in-charge may foreclose the work wherever desire, In such eventually, payment of gross work done up to foreclosure date, PG of the contractor shall be refunded, but no payment on account of interest, loss & profit of damages etc. or any other claim shall be payable at all security deposit shall release after completion of defect liability period starting from foreclosure date.