

# **Notice Inviting Tender**

**Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.**



**INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS, NEW DELHI  
(Works Department)**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS, NEW DELHI-110016  
IITD/WORKS(SP-4061)/2022**

**INDEX**

Name of work: - Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.

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It is certified that this document contains three parts i.e. Part A, Part B & Part C containing page no. 1 to 82.

Executive Engineer (E)

Executive Engineer (CD-IV)

**NIT approved for Rs.13,92,37,438.00 (Civil for Rs.10,66,01,368.00 + Electrical for Rs.3,26,36,070.00)  
(Rupees Thirteen Crore Ninety Two Lakhs Thirty Seven Thousand Four Hundred Thirty Eight only)**

Institute Engineer

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

**Notice Inviting e -Tender**

**The Executive Engineer (CD-IV), IIT DELHI, HAUZ KHAS, New Delhi-16 (Phone No 011-26548714)** on behalf of Board of Governors invites online **Item Rate Tender** from Firms/ Contractors Registered in appropriate class and category with CPWD, MES, BSNL, and Railways **Composite works** of the following work:

NIT No.	:	..... /IITD/EE(CD-IV)/2022-23
Name of Work	:	Composite (Civil + Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.
Estimated cost	:	Rs. 13,92,37,438/- (Civil for Rs.10,66,01,368.00 + Electrical for Rs. 3,26,36,070.00)
Earnest Money	:	Rs. 23,92,374/-
Performance Guarantee	:	3% of Tendered value
Security Deposit	:	2.5% of Tendered Value
Warranty	:	5 Years for Lighting Fixtures and 1 Year for other work. 5 Years for water proofing work.
Period for completion	:	12 Months
Last date & time for submission of bids	:	10/01/2023 upto 15.00 Hrs.
Date & Time of opening of Bids	:	11/01/2023 at 15.00 Hrs.

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 clarifications you may visit on above website.

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

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**Budget Head: Renovation (Research Facility and Housing)/ 35.01.02(IOE) (2021/007/0041)**

**Copy to: -**

1. Institute Engineer
2. Executive Engineer (E) for information.
3. D.A. (Works Accounts)
4. D.R. (A/Cs) – for opening of uploaded documents **at 3:00 PM on 11/01/2023** 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**

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

The Executive Engineer (CD-IV), IIT DELHI, HAUZ KHAS, New Delhi-16 (Phone No 011-26548714) on behalf of Board of Governors invites online **Item Rate Tender** from Firms/ Contractors Registered in appropriate class and category with CPWD, MES, BSNL, and Railways for **Composite works** of the following work:

SL. No.	NIT No.	Name of Work	Estimated Cost (in Rs.)	Earnest Money (in Rs.)	Tender Fees (in Rs.)	Time for Completion
1	/IITD/EE(CD-IV)/2022-23.	<b>Name of work: Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.</b>	<b>13,92,37,438/-</b> <b>(Civil for Rs.10,66,01,368.00 + Electrical for Rs.3,26,36,070.00)</b>	<b>23,92,374/-</b>	<b>1500/-</b>	<b>12 Months</b>

**Last date and time of submission of financial & Technical bid: - 10/01/2023 up to 3:00 pm (online)**

**Date and time of opening of Technical bid: - 11/01/2023 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.**

- The successful bidders shall be required to submit a performance guarantee of **3%** of the tendered amount in the form of Bank Guarantee or F.D.R. from a Nationalized/Scheduled Bank within **5** 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 60 (Sixty) days beyond that.
- Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.
  - Firms/Contractors must have completed satisfactorily one similar work of value not less than **Rs. 11,13,89,951.00/-** or Two similar works each of value not less than **Rs. 8,35,42,463.00/-** or three similar works each of value not less than **Rs 5,56,94,975.00/-** during last 7 years ending on previous day of last date of submission of bids.
  - Earnest money of Rs. 23,92,374/-** in the form of Banker's cheque or Demand draft or fixed deposit receipt of a schedule bank drawn in favour of **Registrar, I.I.T. Delhi**. No relaxation in EMD will be allowed for MSMEs and MSEs as per CPWD Manual.
- Similar work shall mean **Composite Work consisting Civil and E&M Component.**
- 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.
- Information and Instructions for bidders posted on website shall form part of bid document.
- 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 current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of submission of 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 favour 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 & PF Registration.**

25. Bid validity shall be 60 days from date of opening of technical 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 as per Notice Inviting Tender Condition 1.3 page 7 of NIT. (Affidavit 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. Tender Fee of Rs. 1500/- in favour of IITD to be deposited in IITD Canara Bank or IITD SBI Bank & receipt copy to be scanned & uploaded in tender (technical bid) or this fees can be directly RTGS to Registrar IITD and its proof to be uploaded in technical bid
11. 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.
12. Annexure-I (duly filled & signed by the bidders)
13. Annexure-II (duly filled & signed by the bidders)
14. Annexure-III (duly filled & signed by the bidders)

**Note: - All Documents mentioned S.N-1 to 10 are mandatory for technically qualifying and document mentioned 11 to 14 are not mandatory.**

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

**Budget Head: Renovation (Research Facility and Housing)/ 35.01.02(IOE) (2021/007/0041)**

**Copy to: -**

- 1. Executive Engineer (E) for information.**
- 2. D.A. (Works Accounts)**
- 3. D.R. (A/Cs) – for opening of tenders on 11/01/2023 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 in the field of Civil & Electrical upgradation 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 is available.**
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, HauzKhas, 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-IV), IIT Delhi, HauzKhas, 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.
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 3% (Three 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 **Sixty (60)** days from date of opening of technical 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 10 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-IV)**  
**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. 23,92,374/-</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 & Electrical works	
Source of Fund (Institute/Project)	<b><u>Renovation (Research Facility and Housing)/ 35.01.02(IOE) (2021/007/0041)</u></b>	
Is Multi Currency Allowed	No	
Date of Issue/Publishing	29/12 /2022 (15.00 Hrs)	
Document Download/Sale Start Date	29/12 /2022 (15.00 Hrs)	
Document Download/Sale End Date	10/01/2023 (15.00 Hrs)	
Date for Pre-Bid Conference	Nil	
Venue of Pre-Bid Conference	---	
Last Date and Time for Uploading of Bids	10/01 /2023 (15.00 Hrs)	
Date and Time of Opening of Technical Bids	11/01 /2023 (15.00 Hrs)	
Tender Fee	<b>Rs. 1500/-</b>	(To be paid through RTGS/NEFT. 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. 23,92,374/-</b>	
No. of Covers (1/2/3/4)	<b>02</b>	
Bid Validity days (180/120/90/60/30)	<b>60 days (From date of opening of technical bid)</b>	
Address for Communication	<b>EE(CD-IV), MZ-129, Main Building, IIT Delhi</b>	
Contact No.	<b>011-26548714</b>	
Fax No.	<b>Nil</b>	
Email Address	<a href="mailto:Kripa.Shanker.Tripati@admin.iitd.ac.in">Kripa.Shanker.Tripati@admin.iitd.ac.in</a>	

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

## 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)			
Sl. No.	Documents	Content	File Types
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 of all claims made at Annexure-I.	.PDF
<b>Bid Document – 2</b>			
Sl. No.	TYPES	Content	
1.	Financial Bid	Price bid should be submitted in Excel format.	.xls

**INDIAN INSTITUTE OF TECHNOLOGY  
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 **Composite works of Civil and Electrical** for the work of **Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.**

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. **13,92,37,438/- (Civil for Rs.10,66,01,368.00 + Electrical for Rs.3,26,36,070.00)**. 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 is available to start the work.**
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.
9. The contractor whose bid is accepted will be required to furnish **performance guarantee of 3% (Three 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 **Sixty (60)** days from date of opening of technical 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 10 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-IV]** shall be Engineer-in-charge of the major component 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 2020 as corrected/modified upto 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 minor component of the work I.E. (Institute Engineer/EE Engineer-in-charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned as schedule A to F to major components), General/ specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

19.3 The bidder must associate himself, with experienced agencies of the appropriate class eligible of bid for each of the minor component individually.

19.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor component of work.

19.5 After acceptance of the bid by Competent authority, the **EE [CD-IV]** 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-IV]** and has also to sign two or more copies of agreement. On such signed set of agreement shall be handed over to EE (E) in charge of minor component. **EE [E]** will operate Electrical work and EE (CD-IV) will be in charge of major component shall operate Civil works.

**19.6** Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

**19.7** Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of security deposit of the major component of work.

**19.8** The main contractor has to associate agency(s) for minor component (s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency (s) to Engineer-in-charge of minor component(s) within prescribed time, Name of agency (s) to be associated shall be approved by Engineer-in-charge of minor component(s).

**19.9** In case the main contractor to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/agencies shall also have agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

**19.10** The main contractor has to enter into agreement with contractor(s) associated by him for execution of minor components(s) in case the main contractor does not have capability to execute the minor component work. Copy of such agreement shall be submitted to EE [CD-IV] and EE(E), in charge of major and minor component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.

**19.11**-Running payment for the major component shall be processed by EE [CD-IV] of major discipline to the main contractor. Running payment of minor components shall be made by EE [E], discipline of minor component directly to the main contractor.

**19.12A** 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 major component after record of completion certificate of all other components.

**19.12B** Final bill of whole work shall be finalized and paid by the EE [CD-IV] of major component. EE (E), in charge of minor component(s) will prepare and pass the final bill for their respective component of work and pass on the same to the EE (CD-IV) of major component for including in the final bill for composite contractor.



To,

.....,

.....,

.....

**Subject:- NIT No. /IITD/EE(CD-IV)/2022-23 for the work of Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.**

Dear Sir,

It is here by 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-IV)**

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

To,

**Executive Engineer (CD-IV),**

**IIT Delhi, Hauz Khas,**

**New Delhi – 110016.**

**Subject:- Submission of Bid for the of Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.**

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-IV) 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 endeavour 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.
  - 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.
- 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:

Dated :



**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 3% (Three 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 60 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

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)

## COMPLIANCE SHEET

## TECHNICAL SPECIFICATION:

S.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 as per Notice Inviting Tender Condition 1.3 page 7 of NIT. (Affidavit 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 <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	Tender Fee of Rs. 1500/- to be deposited through RTGS to Registrar IIT Delhi as per detail given in schedule page-10 and its proof to be uploaded with technical bid	
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	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.	
15	Any other documents given in NIT	
16	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'

I.I.T.D – 7/8 e-TENDERING

I.I.T.D

INDIAN INSTITUTE OF TECHNOLOGY  
HAUZ KHAS, NEW DELHI - 110016

## Item Rate Tender & Contract for Composite Work

Tender for the work of: **Name of work: -Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.**

- (i) To be submitted by **as per tender notice** ..... to  
.....
- (ii) 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 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 **Sixty (60)** 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.



**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 - 16 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 & Electrical Component)****SCHEDULE 'A'**

Schedule of quantities for Civil&amp; Electrical 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 Nil.  
 requirement/document for the work, if any.

**SCHEDULE 'E'**

Reference to General Conditions of contract : GCC for Maintenance work 2020 for CPWD works along with correction slips/amendments issued upto last date of submission of bid.

Name of Work	:	<b>Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.</b>
Estimated cost of work:	:	<b>Rs.13,92,37,438/- (Civil for Rs.10,66,01,368.00 + Electrical for Rs.3,26,36,070.00)</b>
Earnest Money:	:	<b>Rs.23,92,374/-</b>
Performance Guarantee	:	3% of tendered Value
Security deposit	:	2.5 % of tendered value

## **SCHEDULE 'F'**

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

- |   |   |                            |
|---|---|----------------------------|
| 1. Officer inviting tender  | : | Executive Engineer [CD-IV] |
| 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 & 12.5 | : | See below                  |

### **Definitions:**

- |  |   |   |
|--|---|---|
| 2(i) Engineer-in-Charge  | : | Executive Engineer [CD-IV]  |
| 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 2021 for Civil works with 10% cost index & DSR 2022 for Electrical works including 6% (multiplying factor 0.0633) additional GST with corrected up to last date of submission of bid & Market Rate. |
| 2(v) Department:   | : | <b>Works department at I.I.T Delhi</b>  |
| 2(vi) Standard IITD Form & GCC for Maintenance work 2020, modified & Corrected up to last date of submission of bid. | : |   |

**Clause 1**

- (i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance : **10 days**
- (ii) Maximum allowable extension with late fee @ 0.1 % per day of Performance guarantee amount beyond the period provided in (i) above, : **5days**

**Clause 2**

Authority for fixing compensation under clause 2: : Institute Engineer

**Clause 5**

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

**MILE STONE CHART**

<b>Sl. No.</b>	<b>Description of mile stone (financial terms)</b>	<b>Period for completion from date of start in days/months</b>	<b>Withheld amount for non-achievement of mile stone.</b>
1	Completion of 10% of work done	1/4 <sup>th</sup> (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	Completion of 40% of work done	1/3 <sup>th</sup> (of the whole work)	
3	Completion of 75% of work done	3/4 <sup>th</sup> (of the whole work)	
4	Completion of 100% of work done	12 Months	

Allowed for execution of work : **12 Months**

Authority to decide:

- (i) Extension of time : Institute Engineer
- (ii) Rescheduling of mile stones : Institute Engineer

(iii) Shifting of Date of start in case of delay : Institute Engineer  
in handing over of site

**Clause 6** : Applicable (Computerized MB)

**Clause 7**

Gross work to be done together with net : Minimum Rs. 1.00 Crore  
payment /adjustment of advances for material  
collected, if any, since the last such payment  
for being eligible to interim payment:

**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 : **Not Applicable**  
contractor at site lab

**Clause 10B** : **Not Applicable**

**Clause 10C**

Component of labour expressed as percent of value of work: **25%** for Civil work  
**15%** for Electrical 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.	Cement		
3.	Reinforcement bars		
4.	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 CPWD Specifications 2013** for Electrical works with upto date correction slips & manufacturers Specifications upto the last date of bid submission/uploading of tender.  
Detailed nomenclature of items& specifications for market rate items as per Engineer-in-charge

### Clause 12

**Type of work** : **Maintenance/Upgradation work**

12.2&12.5 Deviation limit beyond which clauses 12.2 & 12.5 shall apply for building work : 100%

12.5 (I) Deviation Limit beyond which clauses 12.2 & 12.5 shall applicable for foundation work (Except items mentioned in earthwork subhead of DSR and related items) : 100%

12.5 (II) Deviation Limit for Items in earth work subhead of DSR and related items : 100%

### 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 36****Requirement of Technical Staff(s) & Recovery Rate**

<b>Cost of Work (Rs. In Crore)</b>	<b>Requirement of Technical Staff</b>		<b>Minimum Experience (Years)</b>	<b>Designation</b>	<b>Rate at which recovery shall be made from the Contractor in the event of not fulfilling</b>
	Qualification	Number			
More than 10 to 20 (For Civil Work)	Graduate Engineer	1	10 (and having experience of one similar nature of work)	Project Manager	Rs. 30,000/- per month per person
	Graduate Engineer or Diploma Engineer	1	5 or 10 respectively	Project/Site Engineer	Rs. 25,000/- per month per person
	Graduate Engineer or Diploma Engineer	1 + 1	2 or 5 respectively	Planning/Quality/Billing Engineer	Rs. 15,000/- per month per person
	Graduate Engineer or Diploma Engineer	1 + 1	2 or 5 respectively	Project Planning/Quality/Billing Engineer	Rs. 15,000/- per month per person
More than 1.5 to 5 (For Electrical Work)	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 Engineers.

## SPECIAL CONDITIONS

- 1.0 Non Judicial stamp paper worth Rs. 10/- (Ten Rupees only) will be submitted by contractor which will have to be signed as token of acceptance.
- 2.0 No T & P would be supplied by the Institute and contractor will have to make his own arrangement.
- 3.0 The contractors are advised to get acquitted 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.
- 4.0 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.
- 5.0 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.
- 6.0 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.
- 7.0 Articles manufactured by the reputed firms as per approved make list and as approved by Engineer-in-charge shall only be used at work.
- 8.0 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.
- 9.0 The sample of material required for Testing shall be provided at free of cost by the contractor. Testing charges if any shall be borne by the IITD if satisfactory report and if test results are unsatisfactory than testing charges shall be deducted from bills of contractor. All other expenditure to be incurred for taking sample, conveyance, packing etc. shall be borne by the contractor.**
- 10.0 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.
- 11.0 The contractor shall make his own arrangement for getting the permission with respect to trucks from the Traffic Police.
- 12.0 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.
- 13.0 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.
- 14.0 The contractor shall be fully responsible for the safe custody of the material issued or brought at site by him for doing the work.
- 15.0 The Malba / Garbage generated at site due to construction activities shall be removed from the site immediately & shall be disposed off by the contractor to the approved dumping site of MCD and all statutory approvals from local bodies shall be a sole responsibility of contractor.

- 16.0 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.
- 17.0 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.
- 18.0 Income tax and other taxes as applicable shall be deducted from the bills of contractor.
- 19.0 1% labour cess or as applicable will be deducted from the bills of contractor.
- 20.0 Water charges @1% and Electricity charges @0.50% of gross work done shall be deducted from bills of contractor if electricity and water provided by IIT Delhi.
- 21.0 Agency has to take proper safety major during the execution of work.
- 22.0 GCC form 7/8 shall form part of NIT and the bidder shall go through GCC 2020 CPWD before quoting rates and the same shall be deemed to be accepted by bidder if he participates in the tender.**
- 23.0 ESI & EPF shall be reimbursed as per norms on production of original receipt of ESI & EPF from contractor specific to this work. .
- 24.0 The contractor shall submit the programme 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.
- 25.0 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.
- 26.0 GST shall considered as inclusive in quoted rate of agency.
- 27.0 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.
- 28.0 Specialized Work:**
- 28.1. The following works are considered as specialized work.
- (a) **Water Proofing.**
  - (b) **Aluminium Work.**
- 28.2. The above specialized work shall be carried by specialized agencies/ agency on their own if they have experience of
- (a) 03 similar work of 40% value of specialized work component of Tendered amount.
  - (b) 02 similar work of 60% value of specialized work component of Tendered amount.
  - (c) 01 similar work of 80% value of specialized work component of Tendered amount.

## **Integral Cement Based Water Proofing Treatment**

- 1) The brickbats shall be from well-burnt bricks. The proprietary waterproofing compound shall conform to IS: 2645-1975. Before execution of work, water proofing compound has to be brought to site from which random sample would be got tested and a certificate of it's conforming to IS Code should be produced. The proprietary waterproofing compound shall be added at the rate recommended by the specialized firm but not exceeding 8% (Eight percent) by weight of cement.
- 2) The finished surface after waterproofing treatment shall have minimum slope of 1 in 80. At no point shall the thickness of waterproofing treatment be less than 65mm.
- 3) While treatment of roof surface is done it shall be ensured that the outlet drainpipes have been fixed and mouths at the entrance have been added and rounded off properly for easy flow of water.
- 4) The surface where the waterproofing is to be done shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and dusted off. The surface shall be treated with neat cement slurry admixed with proprietary water proofing compound to penetrate into crevices and fill up all the pores in the surface. This cement slurry shall be applied at the junction of parapet and terrace slab by injection process.
- 5) After the slurry coat is laid, layer of well burnt brick bats shall be laid in cement mortar of mix as specified by the specialist firm but not leaner than 1:5(1 cement: 5 coarse sand) admixed with proprietary water proofing compound to required gradient and joints filled to half the depth. The brick bat of various thickness shall be used to achieve the specified gradient. This layer shall be rounded at the junction with the parapet and tapered towards top for a height of 300 mm. Curing of this layer shall be done for three days.
- 6) After curing, the surface shall be applied with a coat of cement slurry admixed with proprietary water proofing compound.
- 7) Joints of brick bat layer shall be filled fully with cement mortar of mix as specified by the specialized firm but not leaner than 1:4 (1 cement: 4 coarse sand) admixed with proprietary waterproofing compound and finally top finished with average 20mm thick layer of same mortar and finished smooth with cement slurry admixed with proprietary water proofing compound. The finished surface shall have marking of 300 x 300 mm false squares to give the appearance of tiles.
- 8) Curing of water proofing treatment shall be done for a minimum of ten days.
- 9) The Measurement shall be taken along with the finished surface of treatment including the rounded and trap portion of junction of parapet wall.

**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-IV)*

**LIST OF APPROVED MAKES FOR CIVIL & ELECTRICAL WORKS**

**A-Civil Items**

<b>S. No.</b>	<b>Description</b>	<b>Approved Makes</b>
1	EWC Seat Covers	HINDWARE/PARRYWARE/ CERA
2	C.P Brass Fittings/ Accessories	JAQUAR, MARC, KOHLAR
3	Cement (Grey) OPC/ PPC Grade-43	ACC/ L&T/ J.K./ BIRLA/ ULTRA TECH/ VIKRAM
4	Cement (White)	J.K./ BIRLA
5	Reinforcement Steel	PRIMARY MANUFACTURERS APPROVED BY MINISTRY OF STEEL/ SECONDARY MANUFACTURER HAVING VALID BIS LICENSE (TO BE AS PER LATEST BIS PROVISIONS)
6	Structural Steel	PRIMARY MANUFACTURERS APPROVED BY MINISTRY OF STEEL/ SECONDARY MANUFACTURER HAVING VALID BIS LICENSE (TO BE AS PER LATEST BIS PROVISIONS)
7	Stainless Steel (Grade 304)	JINDAL/ SAIL/ SALEM
8	Bricks	COMMERCIALLY AVAILABLE OR REQUIRED STRENGTH
9	Aluminum Sections	HINDALCO/ JINDAL/ MAHAVIR
10	Flush Doors	CENTURY/ MERINO/ DURO BOARD/ GREEN
11	Laminates	GREENLAM/ DURO/ ARCHID/ MERINO/ DECOLAM/ CENTURY
12	Glass	SAINT GOBIN/ MODI FLOAT/ ASAHI FLOAT
13	Ceramic Glazed tiles/ Border tiles	1 <sup>ST</sup> QUALITY KAJARIA / NITCO/ JOHNSON/ ORIENT/ SOMANY
14	Vitrified Tiles	JOHNSON/ KAJARIA/ ORIENT/ SOMANY
15	Interlocking precast paver blocks/ Kerb Stone	HINDUSTAN TILES/ SWASTIK/ DALAL
16	Stainless Steel Hinges	JOLLY/ GARG/ AMIT/ ASI/ SUPREME
17	Stainless Steel Nuts bolts / Screws	KUNDAN/ PUJA/ ATUL/ GWK
18	Paint/ Primer/ Oil bound distemper/ Acrylic paint/ Plastic paint	1 <sup>ST</sup> QUALITY PAINTS OF ASIAN/ BERGER/ NEROLAC/ SHALIMAR/ DULUX
19	Water Proof Cement Paint/ Exterior Paint	1 <sup>ST</sup> QUALITY PAINTS OF ASIAN/ BERGER/ NEROLAC/ SHALIMAR/ DULUX
20	Sanitary ware (Vitreous China) (European Seats, Urinals, Wash Basins, etc.)	HINDWARE/ PARRYWARE/ CERA
21	G.I. Pipes	TATA/ JINDAL(HISSAR)/ BHUSHAN/ APL APPOLO/ TT SWASTIK
22	G.I. Fittings	UNIK/ ZOLOTO/ AM
23	Stainless Steel Sink	NEELKANTH/ JAINA/ KINGSTON (COBRA)/ PRAYAG
24	Commercial Board/ Ply	MERINO/ DURO/ GREEN/ CENTURY/ KIT (SWASTIK)
25	CI Pipes/ Fittings & Manhole covers	RIF/ NECO/ BENGAL IRON WORKS/ BC/ SKF
26	CI Pipes "Class LA"	NICO/ KESORAM/ ELECTRO STEEL/ KAPILANSH
27	Floor Spring	DOORKING/ EVERITE/ SANDHU
28	Door Closer	EVERITE/ SANDHU/ HARDWIN
29	Mirror	ATUL/ MODIGUARD/ SAINT GOBAIN/ AASHI
30	Vertical Blinds	VISTA/ MAC/ MARVEL DÉCOR/ SAINT GOBAIN
31	False Ceiling	ARMSTROBG/ SAINT GOBAIN/ META WORTH
32	Water Proofing Compound	CICO/ FOSROC/ PIDILITE/ ECMAS/ ASIAN
33	Polymer Compound	CICO/ PIDILITE/ FOSROC/ ECMAS/ ASIAN



34	Particle Board	NOVA PAN/ BHUTAN BOARD/ ECO BOARD
35	Rust Remover/ Anticorrosive	FOSROC/ CICO/ PIDILITE/ ECMAS/ ASIAN
36	Crystalline Cementious Waterproofing compound	XYPEX / KRYTONE/ PENETRON
37	Tile Adhesive	PIDILITE/ FERROUSCRETE/ BALLNDURA/ CICO
38	Wall Putty	BIRLA / JK/ SARA
39	Epoxy Grout	BALLENDURA/ KERAKOLL/ FERROUSCRETE
40	PVC Water storage tank (ISI marked)	SINTEC/ UNI PLAST/ POLYWELL
41	PVC insulated water storage tank Heavy duty 4/5 layer	SINTEX/ UNI PLAST/ POLYWELL/ EURO
42	Brass Ball Valve/ Gate Valve/ Float Valve	ZOLOTO/ AM/ LEADER/ SANT
43	Aluminum 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	ADHARSHREE/ 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)	JSW, BHUSHAN, D-META
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	Wooden Flooring	VISTA/ ACTION TESA/ ARMSTRONG/ PERGO
59	Sun Control Film	3M/ GARWARE/ SAINT GOBAIN
60	Insulation	UP TWIGA LTD OR EQUIVALENT
61	Fire Door	NAVAIR/ SHAKTI/ GODREJ/ RADIANT
62	Flush Door Shutters Of Various Thickness	MERINO/ DURO/ GREEN/ CENTURY/ KIT (SWASTIK)
	<b>Furniture</b>	
63	Work Station	GODREJ INTERIO/ HAWORTH/ STEELCASE/ WIPRO/ FEATHERLITE/ HERMAN MILLER
64	Executive Table/ Other Table	GODREJ INTERIO/ HAWORTH/ STEELCASE/ WIPRO/ FEATHERLITE/ HERMAN MILLER
65	Chair/ Audi Chair	GODREJ INTERIO/ HAWORTH/ STEELCASE/ WIPRO/ FEATHERLITE/ HERMAN MILLER
66	Lab Furniture's	KEWANEE/ WALDNER/ GODREJ/ WIPRO/ FEATHERLITE
67	Hostel Beds And Cots	ZUARI/ EVOK/ GODREJ/ WIPRO/ FEATHERLITE
68	Hospital Beds	HUNTLEY/ STRIKER/ GODREJ/ WIPRO/ FEATHERLITE
	<b>Electrical</b>	
69	MCB(10KA) & MCB DB	Legrand /Havells/ Siemens/ Standard/Crompton/ L&T / GM/ C&S
70	MCCB	Legrand /Havells/ Siemens/Crompton/ L&T / C&S/ GE Power Control
71	MCCB BOX	Legrand /Havells/ Siemens/Crompton/ L&T / C&S/ GE



		Power Control
71	Modular type switch/ socket, TV socket,	Havells Crabtree / L&T/ MDS/ Wipro North West/ Legrand/GM / Polycab/ Schneider
72	Steel conduit pipe and Accessories (ISI)	BEC/ AKG/ NIC
73	PVC conduit pipe and Accessories(ISI)	BEC/ AKG/ NIC
74	Junction Boxes/ MS Boxes	Havells Crabtree / Anchor / North West / Legrand
75	Bushes	PVC/ Nylon
76	FRLS PVC insulated copper conductor cable	Polycab / Finolex / Havells/ KEI
77	Light Fixture	Philips/ Panasonic/ Bajaj/ Osram/ Havells/ Halonix
78	Ceiling Fans (Double ball bearing) & Wall Fan	Havells/ Atomberg/ Bajaj/ Usha/ Orient/ Halonix.
79	Exhaust Fan (Double Ball Bearing)	Crompton Greaves / GE / Almonard / Usha/ Havells/ Orient
80	Industrial type socket	Schneider / L&T/ ABB / Legrand
81	DLP U-PVC channel & accessories	Schneider / Legrand
83	Modular Plate & Cover Plate	Havells Crabtree / L&T/ MDS/ Wipro North West/ Legrand/GM / Polycab/ Schneider
85	Distribution Board	Legrand /Havells/ Siemens/ Standard/Crompton/ L&T / GM/ C&S
86	XLPE Alumium/ Copper conductor Armoured cable	Havells/ Gloster/ Polycab/ RR kabel/ KEI/ Universal
87	Multifunction Meter	L&T/ AE/ Universal/ ABB/ Siemens/ Kirloskar
88	Ammeter	L&T/ AE/ Universal/ ABB/ Siemens/ Kirloskar
89	Voltmeter	L&T/ AE/ Universal/ ABB/ Siemens/ Kirloskar
90	Frequency Meter	L&T/ AE/ Universal/ ABB/ Siemens/ Kirloskar
91	CT's	L&T/AE/ KAPPA/ Pragati
92	Selector Switches	L&T/AE/ KAPPA/ Pragati
93	Contractors	L&T/ GR power controls/ Crompton/ Havells/ Legrand
94	Push button & Polor lamps	L&T/ Vishnoo/ BCH
95	LED indicating Lights	L&T/ Siemens/ Kaycee/ Crompton/ Vaishno
96	GI Pipe	Jindal Steel/ Jindal Hisar
97	DW HDPE Pipe	Reliance/ Duraline/ Hasti
98	LED Lights	Philips/ Panasonic/ Bajaj/ Osram/ Havells/ Halonix
99	Panel Manufacturers (Panel Shall be CPRI approved)	Eva engineering/Milestone/Tricolite/Edlac/ L&T
100	Cat 6 LAN Cable	D-Link
101	AC	As per BOQ

## 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)			
Sl. No.	Documents	Content	File Types
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 field return of GST.	.PDF
5.		Affidavit as per Notice Inviting Tender Condition 1.3 page 19 of NIT. (Affidavit 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.).	.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.		Proof of tender fees	.PDF
11		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
12		Annexure-I (duly filled & signed by the bidders)	PDF
13		Annexure-II (duly filled & signed by the bidders)	PDF
14		Annexure-III (duly filled & signed by the bidders)	PDF
11	Any other documents specified in NIT	PDF	
<b>Envelope – 2</b>			
Sl. No.	TYPES	Content	
1.	Financial Bid	Price bid should be submitted in BOQ format.	.Xls

All above documents shall be as per Tender Notice.

# PART 'C'

## SCHEDULE OF QUANTITY

Name of work:- Composite (Civil +Electrical) work for up-gradation of 72 (Seventy Two) number Vaishali Houses in West campus area at IIT Delhi during FY 2022-23/2023-24.

Sr.No	Description	Qty	Unit	Rate (Rs) (Inclusive of GST)	Amount (Rs)
<b>Civil Items</b>					
1	<b>Carriage of Materials</b>				
1.1	By Mechanical Transport including loading, unloading and stacking				
1.1.1	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.	422.00	Cum		
2	<b>EARTH WORK</b>				
2.1	Supplying chemical emulsion in sealed containers including delivery as specified.				
2.1.1	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	216.00	Litre		
2.2	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
2.2.1	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	3600.00	Metre		
2.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				

2.3.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	36.00	Cum		
2.3.2	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)	37.00	Cum		
3	<b>REINFORCED CEMENT CONCRETE</b>				
3.1	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 :	4.00	cum		
3.1.1	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)	8.00	cum		
3.2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	8.00	cum		
3.3	Centering and shuttering including strutting, propping etc. and removal of form for				
3.3.1	Suspended floors, roofs, landings, balconies and access platform	100.00	sqm		
3.3.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	80.00	sqm		
3.3.3	Columns, Pillars, Piers, Abutments, Posts and Struts	40.00	sqm		
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				

3.4.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	960.00	kg		
4	<b>MASONRY WORK</b>				
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
4.1.1	Cement mortar 1:6 (1 cement :6 coarse sand)	16.00	Cum		
4.2	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.				
4.2.1	Cement mortar 1:4 (1 cement :4 coarse sand)	20.00	Sqm		
4.3	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	20.00	Sqm		
5	<b>CLADDING WORK</b>				
5.1	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 to edges to give high gloss finish etc. complete at all levels.				
5.1.1	Granite stone slab colour black, Cherry/Ruby red				
5.1.1.1	Area of slab upto 0.50 sqm	215.00	Sqm		
5.2	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	72.00	Each		

5.3	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all 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.	4038.00	Sqm		
6	<b>WOOD AND P. V. C. WORK</b>				
6.1	Providing and fixing aluminium sliding door 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 nuts and screws etc. complete				
6.1.1	250x16 mm	576.00	Each		
6.2	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 :				
6.2.1	200x10 mm	792.00	Each		
6.2.2	150x10 mm	3600.00	Each		
6.2.3	100x10 mm	2880.00	Each		
6.3	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 :				
6.3.1	125 mm	1584.00	Each		
6.3.2	100 mm	3024.00	Each		
6.4	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.				
6.4.1	Twin rubber stopper.	576.00	Each		

6.5	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.	1047.00	Metre		
6.6	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer , all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.				
6.6.1	Decorative finish (both side wood grained finish)	321.00	Sqm		



6.7	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight (Only plan area of chajjas shall be measured for making payment).	138.00	Sqm		
6.8	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
6.8.1	125 mm	1944.00	Each		
6.8.2	100mm	1008.00	Each		
6.9	Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)	1658.00	Sqm		
6.10	Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes, shelves, racks, almirah ,cupboard and drawer etc. including necessary nails, screws etc. complete as per direction of Engineer-in-charge.	4707.00	Sqm		

6.11	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	7056.00	Each		
6.12	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer- in-charge.	360.00	One Set		
6.13	Providing and fixing ready made 304 grade stainless steel Modular kitchen basket and accessories such as right angle basket (Plain Cup & Saucer, plant, Partition, Bottle rack, Thali, Cutlery) kitchen utensil basket, Dinner set basket, kitchen grain basket, Multipurpose basket as per site requirement including finishing (wherever required) and fittings. The same shall be fixed with necessary stainless steel nuts & bolts, Stainless Steel screws & telescopic channel etc. as per direction of Engineer-in-charge. (For payment purpose only weight of Stainless steel basket shall be considered excluding weight of all fixing accessories such as nuts, bolts, fasteners telescopic basket channels etc. Payment of providing and fixing telescopic channel shall be paid separately)	1170.00	Kg		
6.14	Providing and fixing 2mm thick 16 to 19mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per directions of Engineer- in-charge.	13533.00	Metre		
7	<b>STEEL WORK</b>				
7.1	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
7.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	2671.00	Kg		

7.2	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	3514.00	Kg		
8	<b>FLOORING</b>				
8.1	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
8.1.1	Glazed Vitrified tiles Matt/Antiskid finish of size				
8.1.1.1	Size of Tile 600 x 600 mm	1480.00	Sqm		
8.2	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
8.2.1	Size of Tile 600x600 mm	5708.00	Sqm		

8.3	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3 kg/ sqm.	-1480.00	Sqm		
8.4	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	1480.00	Sqm		
8.5	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 x 1 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.	24.00	Each		
9	<b>FINISHING</b>				
9.1	12 mm cement plaster of mix :				
9.1.1	1:6 (1 cement: 6 fine sand)	200.00	Sqm		
9.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
9.2.1	1:6 (1 cement: 6 fine sand)	200.00	Sqm		
9.3	6 mm cement plaster of mix :				
9.3.1	1:3 (1 cement : 3 fine sand)	100.00	Sqm		
9.4	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
9.4.1	Two or more coats on new work	21656.00	Sqm		
9.5	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
9.5.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	3600.00	Sqm		
9.6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
9.6.1	Two or more coats on new work	2668.00	Sqm		
9.7	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.	21656.00	Sqm		

9.8	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.				
9.8.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre.	2668.00	Sqm		
9.8.2	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	21656.00	Sqm		
9.9	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	21656.00	Sqm		
9.10	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
9.10.1	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	8758.00	Sqm		
10	<b>REPAIRS TO BUILDINGS</b>				
10.1	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.				
10.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	544.00	Sqm		

10.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	200.00	sqm		
10.3	Dismantling W.C. Pan / Wash basin/ Kitchen sink of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge.	360.00	Each		
10.4	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	517536.00	Sqm		
10.5	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/ Concealed pipe.	1509.00	Metre		
11	<b>DISMANTLING &amp; DEMOLISHING</b>				
11.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
11.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	282.00	Cum		

11.2	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.				
11.2.1	In cement mortar	12.00	cum		
11.3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
11.3.1	Of area 3 sq. metres and below	360.00	Each		
11.4	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
11.4.1	For thickness of tiles 10 mm to 25 mm	695.00	Sqm		
11.4.2	For thickness of tiles above 25 mm and up to 40 mm.	363.00	Sqm		
11.5	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	2281.00	sqm		
11.6	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	570.00	cum		
11.7	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 :				
11.7.1	15 mm to 40 mm nominal bore.	2592.00	Metre		
11.8	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:				
11.8.1	Up to 150 mm diameter	432.00	Metre		
11.9	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.	144.00	Each		

11.10	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.	5708.00	sqm		
12	<b>SANITARY INSTALLATIONS</b>				
12.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :				
12.1.1	W.C. pan with ISI marked white solid plastic seat and lid	144.00	Each		
12.2	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
12.2.1	Flexible pipe				
12.2.1.1	40 mm dia	288.00	Each		
12.3	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-(a) White Vitreous China Wash basin size 550x400 mm with a15 mm CP Brass single hole basin mixer	216.00	Each		
12.4	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	216.00	Each		
12.5	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
12.5.1	Kitchen sink with drain board				
12.5.1.1	510x1040 mm bowl depth 250 mm	72.00	Each		
12.6	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	144.00	Each		



12.7	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. (a) 15 mm nominal dia.	144.00	Each		
12.8	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.	216.00	Each		
12.9	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawlplugs etc., complete.	216.00	Each		
12.10	Providing and fixing toilet paper holder :				
12.10.1	C.P. brass	144.00	Each		
12.11	Providing and fixing soil, waste and vent pipes :				
12.11.1	100 mm dia				
12.11.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	792.00	Metre		
12.12	Providing and fixing plain bend of required degree.				
12.12.1	100 mm dia				
12.12.1.1	Sand cast iron S&S as per IS : 3989	216.00	Each		
12.13	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
12.13.1	100x100x100 mm				
12.13.1.1	Sand cast iron S&S as per IS - 3989	504.00	Each		
12.14	Providing and fixing collar :				
12.14.1	100 mm				
12.14.1.1	Sand cast iron S&S as per IS - 3989	72.00	Each		
12.15	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :				
12.15.1	100 mm	3096.00	Each		
12.16	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 :				
12.16.1	100 mm inlet and 100 mm outlet				
12.16.1.1	Sand cast iron S&S as per IS: 3989	504.00	Each		
13	<b>WATER SUPPLY</b>				

13.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
13.1.1	20 mm nominal dia Pipes	1509.00	Metre		
13.2	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall				
13.2.1	20 mm dia nominal bore	2952.00	Metre		
13.3	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	72.00	Each		
13.4	Providing and fixing uplasticised PVC connection pipe with brass unions				
13.4.1	45 cm length				
13.4.1.1	15 mm nominal bore	1080.00	Each		
13.5	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet				
13.5.1	100 mm diameter.	144.00	Each		
13.6	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.	72000.00	Litre		
13.7	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
13.7.1	15 mm nominal bore	288.00	Each		
13.8	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
13.8.1	15 mm nominal bore	216.00	Each		
13.9	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
13.9.1	15mm nominal bore	1224.00	Each		

13.10	Providing and fixing PTMT grating of approved quality and colour.				
13.10.1	Circular type				
13.10.1.1	100 mm nominal dia each	216.00	Each		
13.10.1.2	125 mm nominal dia with 25 mm waste hole	288.00	Each		
13.11	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
13.11.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	144.00	Each		
14	<b>Aluminium work</b>				
14.1	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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
14.1.1	For fixed portion				
14.1.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	10696.00	Kg.		
14.1.2	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)				
14.1.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	21270.00	Kg		

14.2	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):				
14.2.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	1022.00	Sqm		
15	<b>Water Proofing</b>				
15.1	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	627.00	Sqm		
15.2	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:				
	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.				

	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.				
	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 Engineerin-charge.				
	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 Engineerin-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.				
	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 :				
15.2.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	2281.00	Sqm		
16.1	Providing and fixing SS 304 wire mesh with 0.5 mm dia. wire and 1.4mm wide aperture in aluminium door, window, ventilator shutters and partitions etc complete as per the architectural drawings and the directions of engineer-in-charge.	761.00	Sqm		

16.2	Providing and fixing Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick with two Stainless steel SS grade 304, brackets (curtain rod) 25 mm dia 1.20mm thick fixed with screws etc., wherever necessary complete : as per DSR item 9.46.3	1076.00	Metre		
16.3	Providing and fixing C.P brass towel rail (length 450 mm) (Make- PRIMA - Modle No - PDX-4501-N) with all necessary accessories complete as per the instructions of Engineer-in-charge.	144.00	Each		
16.4	Providing and fixing C.P brass health faucet with SS flexible tube & stand (length 1 m) (Make- PRIMA - Modle No - PHF4307) with all necessary accessories complete as per the instructions of Engineer-in-charge.	144.00	Each		
16.5	Providing and fixing C.P brass towel ring (Make - Prima -Model no PIL- 4504-B) with all necessary accessories complete as per the instructions of Engineer-in-charge.	288.00	Each		
16.6	Providing and fixing Stainless Steel Dorset Magic Eye (size - 5 inch) for front entry door with all necessary accessories complete as per the instructions of Engineer-in-charge.	72.00	Each		
16.7	Dismantling of wall tiles including base plaster of any mix and thickness including stacking serviceable material and disposal of unserviceable material out side the premises.	2377.00	Sqm		
16.8	Providing and fixing Eye hook complete as per direction of Engineer in charge.	432.00	Each		
16.9	Providing and fixing self adhesive frosted/decorative film on glass partitions/glass doors/windows of approved design and make all complete as per direction of Engineer-in-charge.	51.00	Sqm		
16.10	Providing, laying and jointing of foam concrete blocks (autoclaved aerated cement blocks) having density of 500kg / cum in cement mortar 1:4 (1 cement: 4 coarse sand) over the existing floor at all levels and lead as per direction of engineer-in-charge	282.00	Cum		

16.11	Taking out/ Removing the existing water supply systems with water storage tanks/ pipe lines with fittings, makeing arrangement for temporary water supply during execution of water proofing treatment work on the terrace and refixing the same (total water supply system on terrace) ensuring proper smooth functioning of the system all complete as per direction of /satisfaction to the Engineer - in -charge (New items to be fixed if any will be supplied free of cost by the IITD or will be paid in basic item as per agreement).	73.00	Per tank		
17	<b>[--] Less Credit for Dismantled Materials.</b>				
17.1	Dismantaled Flush door shutters and cup board shutters including fittings	216.00	Each		
17.2	Dismanttled windows shutters with frame and fittings etc.	648.00	Each		
17.3	Old dismanaed PVC Cistern	144.00	Each		
17.4	Old & Dismantaled PVC/Brass/ fittings	1944.00	Each		
17.5	Old & Dismantaled G.I./ C.I. Pipe & Fittings etc.	4101.00	Meter		
17.6	Bricks	2275.00	Nos		
17.7	Bricks bats	4.80	Cum		
17.8	Bricks tiles	19389.00	Nos		
17.9	Bricks bat tiles	45.62	Cum		

Electrical Items					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.				
1.1	Group B	2572.00	Point		
2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	12960.00	Metre		
3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	7200.00	Metre		
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required				
4.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	8640.00	Metre		
4.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	1440.00	Metre		
4.3	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	1440.00	Metre		
4.4	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	2160.00	Metre		
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/ PVC trunking as required.				
5.1	3 x 2.5 sq. mm	720.00	Metre		
5.2	3 x 4 sq. mm	720.00	Metre		
5.3	6 x 4 sq. mm	720.00	Metre		
6	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				



6.1	25 mm	1440.00	Metre		
6.2	32 mm	1440.00	Metre		
7	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
7.1	20 mm	720.00	Metre		
7.2	25 mm	720.00	Metre		
8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
8.1	5/6 amp switch	1728.00	Each		
8.2	2 way 5/6 amp switch	144.00	Each		
8.3	3 pin 5/6 amp socket outlet	1152.00	Each		
8.4	15/16 amp switch	872.00	Each		
8.5	6 pin 15/16 amp socket outlet	872.00	Each		
8.6	Telephone socket outlet/ jack outlet	144.00	Each		
8.7	Bell push	72.00	Each		
9	Supplying and fixing following size/ modules, GI/PVC box alongwith modular base & cover plate for modular switches in recess etc as required.				
9.1	1 or 2 Module (75mmX75mm)	432.00	Each		
9.2	3 Module (100mmX75mm)	728.00	Each		
9.3	6 Module (200mmX75mm)	432.00	Each		
9.4	8 Module (125mmX125mm)	288.00	Each		
9.5	12 Module (200mmX150mm)	288.00	Each		
10	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	360.00	Each		
11	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	1564.00	Each		
12	Supplying and fixing brass batten/ angle holder including connection etc. as required.	576.00	Each		
13	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	72.00	Each		

14	Supplying and installation of Surface mounting LED batten for T8 LED retro fit Lamp with 20 Watt LED tube light single side connection complete fixture with following features:- Suitable for operating voltage and frequency: 130-300 Va.c, 50 Hz.; wattage 20 Watts; Length 1200mm(+/-6%); Output lumens not less than 2000 lm; CCT 6500K; Nominal surge protection 2.5 kV;Power factor not less than 0.9, IP 54. Length 4 feet.;	464.00	Each		
15	Supplying and installation of Surface mounting LED batten light fixture with energy efficient electronic driver with following features:- Suitable for operating voltage and frequency: 130-300 Va.c, 50 Hz.; wattage 10 Watts; Length 600mm(+/-6%); Output lumens not less than 1000 lm; CCT 6500K; Nominal surge protection 2.5 kV;Power factor not less than 0.9, IP 54.	144.00	Each		
16	Supplying and installation of Surface wall mounting bracket LED bulk head with energy efficient electronic driver with following features:- Suitable for operating voltage and frequency: 130-300 Va.c, 50 Hz.; wattage 10 Watts;Output lumens not less than 1000 lm; CCT 6500K; Nominal surge protection 2.5 kV;Power factor not less than 0.9, IP 66.	164.00	Each		
17	Supplying and installation of Recess/Surface mounting round LED luminaire equipped with die-cast aluminium / CRCA housing, anti glare polycarbonate diffuser with energy efficient electronic driver with following features:-Suitable for operating voltage and frequency: 130-300 Va.c, 50 Hz.; wattage not more than 12 Watts;Output lumens not less than 650 lm; CCT 6000K; Nominal surge protection 2.5 kV;Power factor not less than 0.9; Minimum IP protection 54;	144.00	Each		
18	Supplying, fixing, connecting, commissioning and testing of the following luminaries light fixtures complete with all accessories and without lamp as required complete.				
18.1	Wall bracket fitting suitable for 9-20W LED B-22 Base	432.00	Each		
19	Supply and fixing and connecting & commissioning following LED lamps in existing fitting as reqd.				

19.1	LED bulb 5W to 10 W	432.00	Each		
20	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	432.00	Each		
21	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	432.00	Each		
22	Providing and fixing M.S fan hook for ceiling fan including digging in RCC & making good the same complete as required.	144.00	Each		
23	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
23.1	8 way, Double door	76.00	Each		
23.2	12 way, Double door	72.00	Each		
24	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
24.1	Single pole	1472.00	Each		
24.2	Double pole	72.00	Each		

25	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 300 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
25.1	40 Amp	76.00	Each		
25.2	63 Amp	72.00	Each		
26	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	72.00	Each		
27	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	288.00	Each		
28	Dismantling, disconnecting old damaged unserviceable fl fitting/ exhaust fan/ ceiling fan/ bulkhead fitting with bracket etc. as reqd.	720.00	Each		
29	Dismantling of switch / socket /regulator etc. with wooden board as reqd.	1440.00	Each		
30	Dismantling damaged DB/TPN Switches/ loose wire boxes along with all accessories as req	72.00	Each		
31	Supplying and drawing telephone cable of 2 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	3600.00	Mtr.		
32	Supplying and fixing of RJ 45 input and output jack in the existing plate including termination.	144.00	Each		
33	Supplying and fixing of 250 mm size exhaust fan complete with suitable size louvers with all accessories suitable for use on 230 V , 50 Hz supply in the existing opening, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor single/ multi core cable and making good the damage , testing and commissioning etc. as required.	144.00	Each		

34	Supplying and fixing of 300 mm size exhaust fan complete with suitable size louvers with all accessories suitable for use on 230 V , 50 Hz supply in the existing opening, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor single/ multi core cable and making good the damage , testing and commissioning etc. as required.	72.00	Each		
35	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required. 1 Pair	3600.00	Metre		
36	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
36.1	4 X 16 sq. mm (28mm)	144.00	Each		
37	Supplying of PVC insulated, PVC sheathed XLPE aluminium conductor armored cable of Following size, 1.1 KV grade, etc. as required [conforming to I.S-1554/1/88].				
37.1	4 X 16 sq. mm	1100.00	Mtr.		
38	Laying of PVC insulated, PVC sheathed XLPE aluminium conductor armored cable of Following size, 1.1 KV grade , direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.				
38.1	Upto 35 sq. mm	100.00	Mtr.		
39	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
39.1	Upto 35 sq. mm	50.00	Mtr.		
40	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
40.1	Upto 35 sq. mm (clamped with 1 mm thick saddle)	950.00	Mtr.		
41	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	1100.00	Metre		

42	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.	16.00	Each		
43	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	360.00	Mtr.		
44	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	800.00	Mtr.		
45	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	144.00	Each		
46	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
46.1	50 mm dia	50.00	Mtr.		

47	<p>Design, Fabrication, Supplying, testing &amp; commissioning of front operated cubicle type compartmentalised, front access free standing, dust and vermin proof (IP 54) Meter panel board panel suitable of size 2250x 1500 x 400 mm (approx) for use at 415 volt, 3 phase, 4 wire, 50 hertz system suitable for fault level of required value symmetrical at 415 volts, made out of 2mm thick CRCA MS sheet with hinged, gasketed (metal based neoprene) and lockable doors having structural reinforcement with suitable angle/channel/ T/ Flat/ sections including 3 mm thick gland plates on top and bottom and lifting hooks and GI earth strip of required size with 2 nos. earthing terminal and powder coated paint finish of approved shade over metalsurface cleaned and treated with seven tank process complete with frame duly erection in ground and interconnection with copper conductor etc. as specification, as complete as required confirming to IS8623:93 as below.</p>				
47.1	<p><b>Incoming</b>  (a) 400 amp, 4P, 36KA, 50HZ, 415V, AC MCCB with microprocessor release(Integral overload, short circuit, earth fault, overvoltage protection, and neutral protection) with Panel mounted smart energy meter with suitable CT's supporting wifi &amp; LAN communication protocol, all site settable. = 01 Nos.</p> <p><b>Bus Bar</b>  Electrolytic high conductivity aluminium, three phase and neutral busbars rated at 500 amps having a maximum current density of 120 A/sq cm suitable to with stand symmetrical fault level of 35 kA. at 415 Volts. The Neutral busbar is to be of 100% capacity.</p> <p><b>Outgoing</b>  (a) 63 amps, 2P,10kA, 100 mA RCBO ,50HZ, 230V, AC = 12 Nos.,  (b) 63 amps, 4P,10kA, C Curve MCB ,50HZ, 230V, AC =01 Nos  (b) Earthing studs = 02 Nos  (c) Danger plate =01 Nos</p>	4.00	Each		

48	Design, Fabrication, Supplying, testing & commissioning of front operated cubicle type compartmentalised, front access free standing, dust and vermin proof (IP 54) Meter panel board panel suitable of size 2750x 1500 x 400 mm (approx) for use at 415 volt, 3 phase, 4 wire, 50 hertz system suitable for fault level of required value symmetrical at 415 volts, made out of 2mm thick CRCA MS sheet with hinged, gasketed (metal based neoprene) and lockable doors having structural reinforcement with suitable angle/channel/ T/ Flat/ sections including 3 mm thick gland plates on top and bottom and lifting hooks and GI earth strip of required size with 2 nos. earthing terminal and powder coated paint finish of approved shade over metal surface cleaned and treated with seven tank process complete with frame duly erection in ground and interconnection with copper conductor etc. as specification, as complete as required confirming to IS8623:93 as below.				
48.1	<p><b>Incoming</b>  (a) 400 amp, 4P, 36KA, 50HZ, 415V, AC MCCB with microprocessor release(Integral overload, short circuit, earth fault, overvoltage protection, and neutral protection) with Panel mounted smart energy meter with suitable CT's supporting wifi &amp; LAN communication protocol, all site settable. = 01 Nos.</p> <p><b>Bus Bar</b>  Electrolytic high conductivity aluminium, three phase and neutral busbars rated at 500 amps having a maximum current density of 120 A/sq cm suitable to with stand symmetrical fault level of 35 kA. at 415 Volts. The Neutral busbar is to be of 100% capacity.</p> <p><b>Outgoing</b>  (a) 63 amps, 2P,10kA, 100 mA RCBO ,50HZ, 230V, AC = 14 Nos.,  (b) 63 amps, 4P,10kA, C Curve MCB ,50HZ, 230V, AC =01 Nos  (b) Earthing studs = 02 Nos  (c) Danger plate =01 Nos</p>	2.00	Each		
49	[--] <b>Less Credit for Dismantled Materials.</b>				
49.1	Less buyback of T5/ tube light etc. on as is where is basis.	288.00	Nos.		



49.2	Less buyback of 5/15 Amp Switch etc. on as is where is basis.	1440.00	Nos.		
49.3	Less buyback of 5/15 Amp Socket etc. on as is where is basis.	1440.00	Nos.		
49.4	Less buyback of old aluminium wiring on as is where is basis.	10.00	Lot.		
					<b>Total</b>

**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 as per directions of Engineer in Charge.
5. Quoted rates of participating agencies shall be inclusive of GST.