



## **Notice Inviting Tender**

**Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi**

**Sub Head: - Structural Repair works.**

|                          |                            |
|--------------------------|----------------------------|
| <b>Civil work amount</b> | <b>: Rs. 3,24,73,504/-</b> |
| <b>Total Amount</b>      | <b>: Rs. 3,24,73,504/-</b> |

**(WORKS DEPARTMENT)**

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

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

**INDEX**

**Name of work: - Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi**

**Sub Head: - Structural Repair works.**

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It is certified that this document contains three parts i.e. Part A, Part B & Part C containing pages no. **1 to 65**.

**Executive Engineer (CD-III)**

NIT approved for **Rs. 3,24,73,504/- (Rupees Three Crore Twenty-Four Lakh Seventy-Three Thousand Five Hundred Four Only)**

**Institute Engineer**

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

**Notice Inviting e -Tender**

The Executive Engineer (CD-III), IIT DELHI, HAUZ KHAS, New Delhi-16 (Phone No 011-26596237) on behalf of Board of Governors invite online **Item Rate Tender** from authorized applicators of construction chemical manufacturing companies (**Sika / Fosroc / BASF / Pidilite**) in two bid system (Part I Eligibility Bid & Part II Financial Bid) as per eligibility conditions laid down in this tender document at suitable places for following work.

|                                         |   |                                                                                                                                                                                                               |
|-----------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NIT No.                                 | : | ..... IITD/EE(CD-III)/2024-25                                                                                                                                                                                 |
| Name of Work                            | : | <b>Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi</b><br><b>Sub Head: - Structural Repair works.</b> |
| Estimated cost                          | : | <b>Rs. 3,24,73,504/-</b>                                                                                                                                                                                      |
| Earnest Money                           | : | <b>Rs. 6,49,470/-</b>                                                                                                                                                                                         |
| Performance Guarantee                   | : | <b>5 % of Tendered value</b>                                                                                                                                                                                  |
| Security Deposit                        | : | <b>2.5% of Tendered Value</b>                                                                                                                                                                                 |
| Warranty                                | : | <b>1 Year for all Civil and Electrical works.</b><br><b>5 years for waterproofing work.</b>                                                                                                                   |
| Period for completion                   | : | <b>08 Month</b>                                                                                                                                                                                               |
| Last date & time for submission of bids | : | <b>26 / 12 /2024 upto15.00 Hrs.</b>                                                                                                                                                                           |
| Date & Time of opening of Bids          | : | <b>27 / 12 /2024 at 15.00 Hrs.</b>                                                                                                                                                                            |

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

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

**Budget Head: Renovation (Research facility and housing / 35.01.02(IOE)/ (2021/007/0396)**

**Copy to:-**

1. Institute Engineer
2. Executive Engineer (CD-III) for information.
3. D.A. (Works Accounts)
4. D.R. (A/Cs) – for opening of uploaded documents **at 3:00 PM on 27/12/2024** in the office of D.R. Store
5. Notice Boards.
6. Office Copy
7. Web site Administrator, I.I.T.D.

**PART 'A'**  
**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS: NEW DELHI – 110016**  
**IITD/WORKS (SP-4853)/2024**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING (Tender Notice)**  
The Executive Engineer (CD-III), IIT DELHI, HAUZ KHAS, New Delhi-16 (Phone No 011-26596237) on behalf of the Board of Governors invites online **Item Rate Tender** from authorized applicators of construction chemical manufacturing companies (**Sika / Fosroc / BASF / Pidilite**) in two bid system (Part I Eligibility Bid & Part II Financial Bid) as per eligibility conditions laid down in this tender document at suitable places for 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-III)/2024-25. | <b>Name of work: Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi Sub Head: - Structural Repair works.</b> | <b>Rs. 3,24,73,504/-</b> | <b>Rs. 6,49,470/-</b>  | <b>NIL</b>           | <b>08 Month</b>     |

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

**: 26/12/2024 up to 3:00 pm (online)**

**Date and time of opening of technical bid: 27/12/2024 at 3.00 pm (office of D.R Store) Price bids of eligible bidders as per NIT shall be opened at a later date after scrutiny of technical bids.**

1. The successful bidders shall be required to submit a performance guarantee of **5%** of the tendered amount in the form of a Bank Guarantee or F.D.R. from a Nationalized/Scheduled Bank within **15** days of the issue of a letter of intent before the 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.
2. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
  - i) Firms/Contractors must have completed satisfactorily one similar work of value not less than **Rs. 2,59,79,000/-** or Two similar works each of value not less than **Rs. 1,94,85,000/-** or three similar works each of value not less than **Rs 1,29,90,000/-** during last 7 years ending on the previous day of last day of submission of bids.  
and  
At least one work costing not less than **Rs. 1,29,90,000/-** shall be with some Central/ State Government/ Autonomous Body/ Central Public sector Undertaking.
  - ii) **Earnest money of Rs. 6,49,470/-** in the form of Banker's cheque or Demand draft or fixed deposit receipt of a scheduled bank drawn or through RTGS/ NEFT with UTR details in favor of **Registrar, I.I.T. Delhi**. No relaxation in EMD will be allowed for MSMEs and MSEs as per the CPWD Manual.

**3. Similar work means "Waterproofing work / Structural Rehabilitation / Retrofitting/ Seismic Retrofitting/ Special Structural Repair of any RCC Structure."**

4. The intending bidder must read the terms and conditions of IITD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
5. Information and Instructions for bidders posted on the website shall form part of bid document.
6. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <http://eprocure.gov.in/eprocure/app> in free of cost.
7. Completion certificates issued by an officer not below the rank of Executive Engineer of similar works completed by the Agency.
8. **Work means only work under Government/ Central Public Sector Undertaking / State Public Sector Under Central Autonomous bodies/ State Autonomous bodies/ City Development Authority/ Municipal Cooperation of City formed under any act by Central/ State Government and published in Central/ State Gazette or any reputed private organization in case work with private organization TDS certificate concern to work shall also be submitted to consider the work.**
9. The bidder should be an authorized applicator of a construction chemical manufacturing company (Sika / Fosroc / BASF / Pidilite) in support of the above, the bidder should submit a certificate of applicators from the manufacturers.
10. Should have had an average annual financial turnover of Rupees **1,62,36,752/-** during the last 3 years ending **31<sup>st</sup> march 2024** (The financial year 2020-21, 2021-22, 2022-23). (Scanned copy of the certificate from Chartered Accountant to be uploaded There is no need to upload an entire voluminous balance sheet.)
11. **Certificate of Financial Turn Over: -at the time of submission of the bid contractor may upload an Affidavit/ Certificate from C.A. mentioning financial turnover of the last 3 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload an entire voluminous balance sheet.**
12. **Profit/loss : The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheets (standalone financial statement), duly certified and audited by the Chartered Accountant.**
13. **Banker's Certificate from a Commercial Bank or Net worth Certificate:  
Banker's Certificate of the amount equal to 40% of the Estimated Cost put to tender (ECPT),  
OR  
Net worth certificates of a minimum of 10% of the estimated cost are put to a tender issued by a certified Chartered Accountant with UDIN.**
14. 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.
15. 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.
16. 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.
17. The intending bidder must have valid class-III digital signature to submit the bid.
18. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
19. Contractor can upload documents in the form of JPG format and PDF format.
20. 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).

21. 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.
22. 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.
23. The bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker`s Cheque or Deposit at call Receipt or Fixed Deposit Receipts and towards cost of EMD in favor of **Registrar IIT Delhi** to be deposited with <http://eprocure.gov.in/eprocure/app> / NEFT facility.
24. 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.
25. 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”**
26. **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.**
27. **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.**
28. 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.
29. **The bid submitted shall become invalid if:**
  - a. The bidder is found ineligible if he fails to upload documents from 1 to 14 on tender notice page 7.
  - b. The bidder does not upload all the documents (including GST registration) as stipulated in the bid document including the undertaking about deposition of physical EMD of the scanned copy of EMD uploaded etc.
  - c. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.
  - d. The lowest bidder does not deposit physical EMD within a week of opening of tender.
  - e. The Bidder does not upload ESI & EPF Registration.
30. Bid validity shall be **90 Days** from last date of submission of bid.
31. 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. Authorized applicator ship certificate from the construction chemical manufacturing company.
3. Certificate of work experience.
4. Certificate of Registration for GST and acknowledgement of up to date filed return of GST.
5. **Affidavit on Rs. 100/- Non judicial Stamp paper as per Notice Inviting Tender Condition 1.3 at page 8 of NIT. (Stamp Paper shall be purchased/ notarized between date of publishing and last date of submission of bids beside this NIT/Tender ID and name of work must be mentioned on the affidavit).**
6. Acceptance to execute INTEGRITY PACT.
7. Undertaking as per ‘**Sl. No. 25 on page No. 6**’ on firm’s letter head.  
**The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi.**
8. ESI & EPF registration.
9. FORM “F” (Duly filled with all required details).
10. In case of Partnership firm if all the papers of tender not signed by all the partners than a power of attorney authorizing the person who has signed the tender paper must be uploaded with the tender documents.
11. Average annual financial turnover during the last 3 financial years ending **31<sup>st</sup> March 2024**.
12. Net Worth Certificate issued by CA with UDIN **OR** Banker’s certificate issued by a commercial bank.
13. Annexure-I (duly filled & signed by the bidders)
14. Annexure-II (duly filled & signed by the bidders)
15. Annexure-III (duly filled & signed by the bidders)

**Note: - All Documents mentioned S.N-1 to 12 are mandatory for technically qualifying and document mentioned 13 to 15 are not mandatory.**

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

**Budget Head: Renovation (Research facility and housing / 35.01.02(IOE)/ (2021/007/0396)**

**Copy to: -**

1. **Executive Engineer (CD-III) for information.**
2. **D.A. (Works Accounts)**
3. **D.R. (A/Cs) – for opening of tenders on 27/12/2024 at 3:00 PM in the office of D.R. Store**
4. **Notice Boards.**
5. **Office Copy**
6. **Web site Administrator, I.I.T.D**
7. **NIT: - Publicity on Website on Institute as well as on CPP portal <http://eprocure.gov.in> may be ensured as per instruction issued.**
8. **E-tendering Web. <http://eprocure.gov.in/eprocure/app> or [www.iitd.ac.in](http://www.iitd.ac.in)**

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

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

1. The enlistment of the contractors should be valid on the last date of submission of tenders. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.
  - 1.1 The work is estimated to cost **as per tender notice** this estimate, however, is given merely as a rough guide.
  - 1.2 Details of criteria for eligibility As Indicated in “INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE”
  - 1.3 To become eligible for issue of tender, the tenderer shall have to furnish an affidavit as under: -  
**I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in IITD in future forever. Also, if such a violation comes to the notice of the Department before the 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 shall be made available in parts as and when site will be 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, Hauz Khas, New Delhi) as specified of any Scheduled/ Nationalized Bank and shall be scanned & uploaded to the e- tendering website within the period of tender submission or through RTGS/ NEFT with UTR details and original should be deposited by lowest bidder within a week after the opening of financial bid in office of **Executive Engineer (CD-III), IIT Delhi, Hauz Khas, New Delhi**

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



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

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

10. The bid submitted shall become invalid if:
  - (i) The bidders are found not eligible.
  - (ii) The bidders do not upload all the documents (including GST registration/ **other documents as per Tender Notice**) as stipulated in the bid document.
  - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically in the office of tender opening authority.
  - (iv) The lowest bidder does not deposit physical EMD within a week of opening of tender.
  - (v) The Bidder does not upload ESI & EPF Registration
11. The time & date of submission & opening of financial bid of contractors qualifying the **criteria as per Tender Notice** shall be communicated to them at a later date.
12. The contractor whose bid is accepted, will be required to furnish performance guarantee of **5% (Five Percent)** of the tendered and accepted of the bided amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/ Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or irrevocable Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.
13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
16. The competent authority on behalf of Board of Governors reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to tender for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

18. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as afore said before submission of the tender or engagement in the contractor's service.
19. The tender for the works shall remain open for acceptance for a period of **Ninety (90)** days from last date of submission of bid, if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.
20. This notice inviting Tender shall form a part of the contract document. The successful tenderer / contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
  - a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - b) Standard IITD Form - 8 or other Standard IITD Form as mentioned.
21. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid.

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

**NOTICE INVITING TENDER**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**

**HAUZ KHAS, NEW DELHI-110016**

**Terms & Conditions**

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

|                                              |                                                    |
|----------------------------------------------|----------------------------------------------------|
| <b>Details of the item</b>                   | <b>As per Tender Notice</b>                        |
| <b>Earnest Money Deposit to be submitted</b> | <b>Rs. 6,49,470/-</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 (Structural Repair works/Electrical Works/Fleet Management/ Computer Systems) | Structural Repair works.                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source of Fund (Institute/Project)                                                             | <b><u>Renovation (Research facility and housing / 35.01.02(IOE)/ (2021/007/0396)</u></b>                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Is Multi-Currency Allowed                                                                      | No                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date of Issue/Publishing                                                                       | 19/12/2024 (15.00 Hrs)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Document Download/Sale Start Date                                                              | 19/12/2024 (15.00 Hrs)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Document Download/Sale End Date                                                                | 26/12/2024 (15.00 Hrs)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date for Pre-Bid Conference                                                                    | Nil                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Venue of Pre-Bid Conference                                                                    | -                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Last Date and Time for Uploading of Bids                                                       | 26/12/2024 (15.00 Hrs)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date and Time of Opening of Technical Bids                                                     | 27/12/2024 (15.00 Hrs)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tender Fee                                                                                     | <b>NIL</b>                                                                                                                           | (To be paid through RTGS/NEFT/ ONLINE MODE. IIT Delhi Bank details are as under:<br>Name of the Bank A/C : Registrar IIT Delhi<br>SBI A/C No. 10773572622<br>Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016<br>IFSC Code : SBIN0001077<br>MICR Code :110002156<br>Swift No. : SBININBB547<br>(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><u>or as per NIT/ Tender notice</u></b> |
| <b>EMD</b>                                                                                     | <b>Rs. 6,49,470/-</b>                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| No. of Covers (1/2/3/4)                                                                        | <b>02</b>                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Bid Validity days (180/120/90/75/60/30)                                                        | <b>90 Days (From last date of Submission of bid)</b>                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Address for Communication                                                                      | <b>Office of the Executive Engineer (Civil Division-III), Room No- MZ-137, Main Building, IIT Delhi, Hauz Khas, New Delhi-110016</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Contact No.                                                                                    | <b>011-26596237</b>                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Fax No.                                                                                        | Nil                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Email Address                                                                                  | <b><a href="mailto:a26516@admin.iitd.ac.in">a26516@admin.iitd.ac.in</a></b>                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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

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

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

### **REGISTRATION**

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

### **SEARCHING FOR TENDER DOCUMENTS**

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

### **PREPARATION OF BIDS**

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

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

### **SUBMISSION OF BIDS**

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

### **OR**

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

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

### **ASSISTANCE TO BIDDERS**

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

**General Instructions to the Bidders**

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

### Terms & Conditions Details

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



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

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

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

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

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

**Item Rate Tender** from authorized applicators of construction chemical manufacturing companies (**Sika / Fosroc / BASF / Pidilite**) in two bid systems (Part I Eligibility Bid & Part II Financial Bid) as per eligibility conditions laid down in this tender document at suitable places for following work of **Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi**

**Sub Head: - Structural Repair works.**

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. 3,24,73,504/-** This estimate, however, is given merely as a rough guide.
- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.  
  
For composite bid, besides indicating the combined estimated cost put to tender, should clearly indicates the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.
- 1.2 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below: -

**Criteria of eligibility for submission of bid documents.**

**1.2.1 Criteria of eligibility for CPWD as well as non-CPWD contractors.**

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

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated **during last 7 years ending on previous day of last day of submission of bids.**

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

- I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in I.I.T.D in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer- in-Charge shall be free to forfeit the entire amount of Performance Guarantee.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. I.I.T.D 7/8 which is available as I.I.T.D. Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
  3. The time allowed for carrying out the work will be **as per Tender Notice** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
  4. **The site for the work shall be made available in parts as and when site will be 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 [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 5% (Five Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/

Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs.1, 00,000/-) or Government Securities or Fixed.

Deposit Receipts or irrevocable Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor

10. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
11. The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
12. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
13. The competent authority on behalf of Board of Governors reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to bid for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the IIT Delhi. Any breach of this condition by the contractor would render him liable to be debarred from bidding process in future in IIT Delhi.
15. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before

submission of the bid or engagement in the contractor's service.

16. The bid for the works shall remain open for acceptance for a period of **Ninety (90) days** from the last date of submission of bid, if any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the IIT Delhi shall, without prejudice to any other right or remedy, the bidder shall be debarred for tendering in IIT Delhi for a period of one year.

17. This notice inviting bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

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

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

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

19. **For Composite Bid**

19.1 The **Executive Engineer [CD-III]** shall be Engineer-in-charge of the 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 up to date.

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

**Part C: -** Schedule A to F for minor component of the work I.E. (Institute Engineer/EE 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 for 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-III]** i.e. Engineer in charge of the work shall issue letter of award on behalf of the Board of Governors, IIT Delhi, after the work is awarded, the main contractor will have to enter into one agreement with **EE [CD-III]** and has also to sign two or more copies of agreement. On such signed set of agreement shall be handed over to EE (Elect) in charge of minor component. EE of major component will operate part A and EE(Elect) in charge of minor component shall operate part B along with Part A of the agreement.
- 19.6 Entire work under the scope of composite bid including major and all 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 changes any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of the Engineer-in-charge of minor component. The new agency/agencies shall also have an agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 19.10 **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[E] and EE(CD-III), in charge of major and minor component. In case of a 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 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 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 of major component for including in the final bill for composite contractor.**

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

To,  
 .....  
 .....  
 .....

**Subject: - Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi**  
**Sub Head: - Structural Repair works.**

**NIT No. /IITD/EE (CD-III)/2024-25**

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-III)**



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

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

To,

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

**Subject: - Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi.**

**Sub Head: - Sub Head: - Structural Repair works.**

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)

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

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 (E) IIT Delhi.

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

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

**AND**

.....(Name and Address of the

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

**Preamble**

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

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

.....

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

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

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

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

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

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

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

- 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 participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
- e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose 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.

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

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

**Article 8- LEGAL AND PRIOR RIGHTS**

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

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

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

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

**WITNESSES:**

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

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

Place:  
Date:

|                            |                 |
|----------------------------|-----------------|
| <b>BANK GUARANTEE BOND</b> | <b>I.I.T. D</b> |
|----------------------------|-----------------|

**Form of Earnest Money Deposit Bank Guarantee Bond**

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

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

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

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

SEALED with the Common Seal of the said Bank this .....day of ..... 20....

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;
  - OR
  - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,
  - OR
  - (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,
  - OR
  - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

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

This Guarantee will remain in force up to and including the date\*..... after the deadline for

submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE .....

WITNESS .....SEAL

SIGNATURE OF THE BANK

(SIGNATURE, NAME AND ADDRESS)

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

### PERFORMANCE GUARANTEE

- (i) The contractor shall submit an irrevocable Performance Guarantee of **5% (Five Percent)** of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1, 00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- (ii) The **Performance Guarantee shall be initially valid up to the stipulated date of completion plus 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 and Registration No.
  - 1.
  - 2.
  - 3.
5. Name and titles of Directors & Officers with designation to be concerned with this work  
.....  
!
6. Designation of individuals authorized to act for the organization...  
!
7. Has the bidder or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion?  
If so, give name of the project and reasons for abandonment  
.....  
!
8. Has the bidder or any constituent partner in case of partnership firm, ever been debarred/ blacklisted for tendering in any organization at any time? If so, give details  
.....
9. Past work experience in IIT Delhi will be considered in deciding the Technical bid... !

Signature of Bidder(S)

**ANNEXURE-I  
COMPLIANCE SHEET**

**TECHNICAL SPECIFICATION:**

| 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     | Authorized applicator ship certificate from the construction chemical manufacturing company.                                                                                                                                                                                                                                                                                                |                |
| 3     | Certificate of work experience.                                                                                                                                                                                                                                                                                                                                                             |                |
| 4     | Certificate of Registration for GST and acknowledgment of up to date filed return of GST.                                                                                                                                                                                                                                                                                                   |                |
| 5     | <b>Affidavit on Rs. 100/- Non-judicial Stamp paper as per Notice Inviting Tender Condition 1.3 at page 8 of NIT. (Stamp Paper shall be purchased/ notarized between date of publishing and last date of submission of bids beside this NIT/Tender ID and name of work must be mentioned on the affidavit).</b>                                                                              |                |
| 6     | Acceptance to execute INTEGRITY PACT.                                                                                                                                                                                                                                                                                                                                                       |                |
| 7     | Undertaking as per <b>Page-6/ Sl. No. 25'</b> on firm`s letter head.<br><b>“The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi”</b> |                |
| 8     | ESI & EPF registration.                                                                                                                                                                                                                                                                                                                                                                     |                |
| 9     | FORM “F” (Duly filled with all required details).                                                                                                                                                                                                                                                                                                                                           |                |
| 10    | In case of Partnership firm if all the papers of tender not signed by all the partners than a power of attorney authorizing the person who has signed the tender paper must be uploaded with the tender documents.                                                                                                                                                                          |                |
| 11    | Average annual financial turnover during the last 3 financial years ending <b>31<sup>st</sup> March 2024</b> .                                                                                                                                                                                                                                                                              |                |
| 12    | Net Worth Certificate issued by CA with UDIN <b>OR</b> Banker`s certificate issued by a commercial bank.                                                                                                                                                                                                                                                                                    |                |
| 13    | Annexure-1 (Dully Filled & signed by the bidders)                                                                                                                                                                                                                                                                                                                                           |                |
| 14    | Annexure 2 (Dully Filled & signed by the bidders)                                                                                                                                                                                                                                                                                                                                           |                |
| 15    | Annexure 3 (Dully Filled & signed by the bidders)                                                                                                                                                                                                                                                                                                                                           |                |
| 16    | Any other documents given in NIT                                                                                                                                                                                                                                                                                                                                                            |                |
| 17    | 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                                                                                                                                                                                                           | As per Tender Notice & NIT                         |
| 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)<br>UTR No. (For Tender Fee)                                                                                                                                          |                                                    |
| 9.(In case of on-line payment of EMD)<br>UTR No. (For EMD)                                                                                                                                                         |                                                    |

**(Signature of the Tenderer)**

**Name:**

**Seal of the Company**



**PART-B**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS, NEW DELHI - 110016  
Item Rate Tender & Contract for Composite Work**

Tender for the work of: **Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi**

**Sub Head: - Structural Repair works.**

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

.....

(i) To be opened in presence of bidders who may be present at **as per tender notice**

.....

in the office of **D.R. (Store)**

Issued to .....

Signature of officer issuing the documents .....

Designation.....

Date of Issue .....

**TENDER**

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

I/We hereby tender for the execution of the work specified for the 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 **Ninety (90)** 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.

|                                  |                |
|----------------------------------|----------------|
| <b>I.I.T.D – 7/8 e-TENDERING</b> | <b>I.I.T.D</b> |
|----------------------------------|----------------|

**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 Component)****SCHEDULE 'A'**

Schedule of quantities for **Structural Repair works** as attached.

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor.

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

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor.

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

**SCHEDULE 'D'**

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

**SCHEDULE 'E'**

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



|                         |   |                                                                                                                                                                                                               |
|-------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Work            | : | <b>Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi</b><br><b>Sub Head: - Structural Repair works.</b> |
| Estimated cost of work: | : | <b>Rs. 3,24,73,504/-</b>                                                                                                                                                                                      |
| Earnest Money:          | : | <b>Rs. 6,49,470/-</b>                                                                                                                                                                                         |
| Performance Guarantee   | : | 5% of tendered Value                                                                                                                                                                                          |
| Security deposit        | : | 2.5 % of tendered value                                                                                                                                                                                       |

### **SCHEDULE 'F'**

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

- |                                                                                                                                                   |   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------|
| 1. Officer inviting tender                                                                                                                        | : | Executive Engineer [CD-III] |
| 2. Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.5 | : | See Clause-12               |

#### **Definitions:**

- |                                                                                                                  |   |                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2(i) Engineer-in-Charge                                                                                          | : | Executive Engineer [CD-III]                                                                                                                                  |
| 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:                                                                                | : | <b>DSR-2023 for Civil work - GST Correction Factor 0.973 + 3% cost Index with up-to-date correction slip on date of submission of bid &amp; Market Rate.</b> |
| 2(v) Department:                                                                                                 | : | <b>Works department at I.I.T Delhi</b>                                                                                                                       |
| 2(vi) IITD Form & CPWD 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 : 15 days
- (ii) Maximum allowable extension with late fee @ 0.1 % per day of Performance guarantee amount beyond the period provided in (i) above, : 1 to 15 days

**Clause 2**

Authority for fixing compensation under Delay: : Institute Engineer

**Clause 5**

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

**MILESTONE CHART**

| Sl. No. | Description of milestone (financial terms) | Period for completion from date of start in days/months | Withheld amount for non-achievement of milestone. |
|---------|--------------------------------------------|---------------------------------------------------------|---------------------------------------------------|
|         |                                            |                                                         |                                                   |
|         |                                            |                                                         |                                                   |
|         |                                            |                                                         |                                                   |
|         |                                            |                                                         |                                                   |

NIL

Allowed for execution of work : **08 Month**

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 in handing over of site : Executive Engineer (CD-III)

**Clause 6** : Clause 6

**Clause 7**

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

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

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

**Clause 10A**

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

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

**Clause 10C**

Component of labour expressed as percent of value of work: **25%** for civil work & **15%** for 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** and Electrical General Specification for electrical 2013 (internal and external) Corrected slips & manufacturers Specifications up to the last date of bid submission/uploading of tender. Detailed nomenclature of items & specifications for market rate items as per Engineer-in-charge

**Clause 12****Type of work****Maintenance work including works of up-gradation, aesthetic, special repair, addition/alteration**

|             |                                                                                                                                                              |   |      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 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 25**

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

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

**Clause 32**

Requirement of Technical Staff(s) & Recovery Rate

| Cost of Work (Rs. In Crore)  | Requirement of Technical Staff              |                                                  | Minimum Experience (Years)   | Designation                                                              | Rate at which recovery shall be made from the Contractor in the event of not fulfilling provision of clause 32 |
|------------------------------|---------------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|                              | Qualification                               | Number                                           |                              |                                                                          |                                                                                                                |
| More than 1.5 Crore to 5 cr. | Graduate Engineer<br>or<br>Diploma Engineer | 01 +01<br>Of major Component<br>(Civil Engineer) | 2<br>or<br>5<br>Respectively | Project Manager<br>Cum planning/<br>quality/<br>Site/billing<br>Engineer | Rs. 15,000/- per month per person                                                                              |

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

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

**Clause 38**

|     |                                                                                                                                                                         |                                      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| i)  | Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2021 with up to date correction printed by C.P.W.D. |                                      |
| ii) | Variations permissible on theoretical quantities                                                                                                                        |                                      |
| a)  | Cement:                                                                                                                                                                 |                                      |
|     | For works with estimated cost put to tender not more than Rs.5 lakh.                                                                                                    | 3% plus/minus. (Three percent)       |
|     | For works with estimated cost put to tender more than Rs.5 lakh.                                                                                                        | 2% plus/minus. (Two percent)         |
| b)  | Bitumen all works.                                                                                                                                                      | 2.5% plus & only & nil on minus side |
| c)  | Steel Reinforcement and structural steel sections for each diameter, section and category                                                                               | 2% plus/minus (Two percent)          |
| d)  | All other materials                                                                                                                                                     |                                      |
| e)  | Schedule for determining theoretical consumption of Brick work on the basis of DSR 2021                                                                                 |                                      |

**PARTICULARS SPECIFICATIONS AND**  
**REPAIR METHODOLOGY TO BE FOLLOWED FOR STRUCTURAL REPAIR WORK**

**The Methodology for the Repair of Columns, Beams And Slabs.**

The damages have been classified in the following four categories.

**1 Severe:**

The members under these categories are badly affected. Multiple very wide structural cracks more than 70 percent were observed. The reinforcement in the members is heavily corroded and visible as the cover at most of the places had fallen out. The NDT result of these structural members also show that strength of concrete has been in the category of heavily deteriorated category.

**2 Medium:**

The structural members placed in this category are having multiple cracks to the tune of 30percent. The reinforcement in these members is also corroded causing spalling of concrete at various locations and loose chunks of concrete come out easily on hitting with a metallic hammer. The NDT result of these members shows the quality of concrete has been in the category of 'Doubtful'.

**3 Mild:**

Small size Structural and non-structural cracks are observed in these members. The NDT result of these members corresponds to the quality of concrete to be fair. The corrosion in the reinforcement of these is started and needs attention

**4 No Damaged/ Repaired:**

No visual damage was observed; the structural members seem to be OK, due to repair by the maintenance division in the past.

Three different repair methodologies are being suggested for the repair of the columns. The "Repair Methodology-1" is suggested for the "Severely" damaged columns. The "Repair Methodology-2" is suggested for the repair of columns in which Medium and Mild category type of damages. "Repair Methodology-3; is suggested for the repair of externally located damaged beams, and chajjas. These methodologies are as detailed below:

**Repair Methodology-1**

This repair methodology includes,

- Supporting the Structure,
- Removal of unsound concrete from the affected area,
- Protective treatment to the existing steel reinforcement,
- Addition of the reinforcement steel where the area of the steel is reduced to more than 10 percent,
- Repairs using single component high strength polymer modified mortar or using high strength free flow micro concrete,
- Strengthening of the member using E-Glass or Carbon fiber wrapping,

**1) Supporting the Structure.**

Providing and erecting steel props (about 14' height, braced at the center and supporting a continuous 2" x 3" wooden runner, resisting on the wedge and block minimum capacity 3 Ton) to support the structure provisionally during repair and jacketing etc. and maintaining them in position till required as directed by IIT Delhi. It is the responsibility of the contractor or applicator to provide appropriate shoring and provide proper jacks to de-stress the structure, before taking up the repair and retrofitting.

**2) Removal of Unsound Concrete from Affected Area:**

The First step in preparing reinforcing steel for repair or cleaning is removing the

deteriorated concrete surrounding the reinforcement. Care should be used to ensure that further damage to the reinforcing steel is not caused by the process of removing the concrete. Impact breakers can heavily damage reinforcing steel if the breaker is used without regard to the location of the reinforcement. For this reason, a cover meter or reinforcing bar locator should be used to determine the depth, size, quantity, and approximate location of the reinforcement in the concrete. Once the larger area of unsound concrete has been removed, a smaller chipping hammer should be used to remove the concrete in the vicinity of the reinforcement. Care should be taken not to vibrate the reinforcement or otherwise cause damage to its bond to concrete adjacent to the repair area. No reinforcing bar is to be cut or removed without the approval of the engineer. All weak, damaged, and easily removable concrete should be chipped away. If the reinforcing bars are only exposed after all unsound concrete is removed, it may not be necessary to remove additional concrete to expose the full circumference of the reinforcement. When the exposed reinforcing steel has loose rust, corrosion products, or is not well bonded to the surrounding concrete, the concrete removal should continue to create a clear space behind the reinforcing steel of 6 mm (0.25 in.) , plus the dimension of the maximum size aggregate of the repair material.

**3) Application of concrete penetrating corrosion inhibitor on concrete surface:**

Carry out application of 'Bi-polar migratory corrosion inhibitor on concrete surface by brush in two coats. This inhibitor has migratory kind of property which permits the materials to migrate to a virtual extent of 60 mm, through pores of concrete, inhibiting the corrosion and de-passivating the electro-chemical reaction. It has property to attack anode as well as cathode, which is purely alkaline in nature (pH-9.5), so it has no carcinogen activity with concrete. Material shall have evaluated test reports indicating significant reduction in corrosion rate indicative of its suitability for tropical applications. Grout 50 to 75 mm deep holes at the spacing of 350 mm c/c with the dosing of 100 ml per hole in concrete body.

**4) Providing Additional Reinforcing Steel :**

Makeup lost steel area due to corrosion by providing additional steel reinforcement. The steel shall conform to IS 1786 grade Fe500D. Anchor the steel rebar in sound concrete body up to desired depth by structural GRADE adhesive. Fixing of rebars is to be with pre left binding wires with existing steel at regular grid after aligning concrete profile with new mortar up to existing steel face.

**5) Strengthening the Columns, Beams & Slabs**

**i) Making Up Lost Strength of Core Concrete by Low Viscosity Monomer:**

Make up to lost strength of core concrete shall be with grouting of low viscosity (2-5cps- as per ASTM-D-2196) monomer. This is a low viscous high molecular weight thermosetting polymer. Due to its low viscosity it effectively fills up all micro-cracks and voids up to full depth of concrete. Beside enhancing existing binding matrix this shall also enhance in ductility property of elements.

**Description of Grout:**

- Drilling of holes 12 mm dia. And about 1/3 rd of element deep into concrete along the cracks or in honey combed and deteriorated areas, fix the perforated nozzles, and seal the sides with Epoxy sealant.
- Epoxy sealant: This is a non-shrink sealant. It is built in resilience to absorb impact and movements in joints.
- Inject very low viscous injection resin into pre-drilled nozzles at a pressure of 4-10 kg/cm<sup>2</sup> or as instructed by engineer-in-charge using compressed air and injecting gun. Seal the nozzles with epoxy after injection is completed.



**ii) Grouting of Structural Cracks by Low Viscosity Epoxy Grout:**  
Grout the wide structural cracks in the concrete by grouting of low viscosity grout (200 cpc as per ASTM-D-2196). Cut a V-groove along the crack of proportionate size. Drill the holes along the crack at desired spacing. Seal the remaining portion by no-shrink epoxy putty to avoid any leakages of grout material. Grout the low viscosity material through epoxy injection gun under pressure of 3 to 4 kg/ cm<sup>2</sup>. Cut and seal the nozzles after 24 hrs of application of grouting.

**iii) Sectional Reconstruction in Excessively Damaged Concrete in Structural Elements**

**a.) Bonding Coat:**

Bond between new and old concrete is important aspect for effective participation of total cross sectional area of concrete. Selection of type of bond coat is based on, type of stresses bond strata is expected to go, and prevailing area where application is to be carried. After the various pre-treatment apply liberal quantity of bond coat on cleaned concrete surfaces as per the detailed manufacture's procedure. Ensure that the application of new concreting is carried out during the pot life of material.

**b). Making up lost- section with free flow micro concrete:**

For replacing the carbonated part of concrete and repairing the damaged surface of concrete, fix the form work across the profile of damaged structural element. Pour the free flow concrete mix in the form work. Makeup concrete is based on type of structural element and its location. For large replacement of damaged concrete the free flow type of micro-concrete can be used. For small patch works the latex modified mortars can be used.

**c.) Making up lost- section with latex modified mortar:**

Makeup mortar is based on type of structural element and its location. Here following type of modified mortars are recommended.

Modified mortar:

For replacing the carbonated part of concrete and repairing the damaged surface of concrete usage of following formulated mortar is recommended.

**Mix:**

- Cement: 50 Kg
- Sand: 150 Kg
- Monobond: 2.5 to 5 kg
- Water: 15-20 Liters.

**6) Strengthening of the member using E-Glass or Carbon fiber wrapping:  
Methodology for wrap System- Fiber Wrapping Technique:**

The fiber wrapping technique of retrofitting is relatively new technique. It has got certain wrapping technique of retrofitting is relative ease for application, high strength to weight ratio, energy, and time saving, clean and noise free application, high strength to weight ratio, energy, and time saving, clean, and noise free application. The fiber wrapping system offers resistance to corrosion of reinforcement also. The fiber wrap skin acts as a deterrent to environmental degradation. It also has tailor ability to adapt to any shape of substrate concrete.

**The following are the steps taken for Fiber Wrapping:**

1. The contact surface of concrete element shall not have free moisture at the time of application.
2. All bare concrete surfaces to be strengthened shall be primed with epoxy primer using a roller brush. Any surface concavity is to be filled by epoxy or other suitable putty.
3. Apply saturate epoxy on the surface.
4. Stretch unidirectional glass fiber over the surface and press by rollers to squeeze out the saturant through the fabric. Air bubbles are also removed due to this operation. ... indicated the general direction of fiber for beams in flexure and shear, and columns in confinement. The wrapping around the beam-column joints are shown....
5. The fibers of the composite shall be lapped at least 150 mm in the direction of fiber between adjacent layers.
6. The process is repeated (steps 6- 7) for application of second layer.
7. For the elements exposed to sunlight, a sealer coat may be applied on the wrap.

**Protective Measure against Deterioration of building due to corrosion of Reinforcement:**

The following treatment is general is recommended for the affected concrete members:

- The loose and disintegrated concrete be removed.
- The concrete surface should be thoroughly scrubbed by hard steel wire brush to ensure that no loose mortar, disintegrated concrete or concrete lumps are left. The scrubbed surface should then be cleaned by washing with water and made free of dust particles. Preferably by blowing air under pressure.
- Apply the bond coat of Epoxy coating on the entire surface, to have proper bond in between the old concrete and mortar.
- Make the column with polymer modified cement mortar when the bond coat is tacky. Cement: sand mortar (1:3) used shall have 20% acrylic emulsion by weight of cement. It shall be cured for 7 days by sprinkling water.
- In case the concrete member is in good condition but there are small cracks or undulations, the cracks, joints, or undulations are repaired using epoxy sealant .

**The Following is the Detailed Procedure for Fiber Wrapping:**

1. **Structure Preparation:**  
Basic repairs must be made to the structure prior to strengthening with FRP. Spelled concrete removed, Corroded or damaged steel addressed major cracks injected. Build the surface with polymer modified mortar or micro concrete.
2. **Surface Preparation:**  
The surface to be repaired is typically rubbed off to smooth out irregularities remove contaminants and radius sharp corners. This can be performed by shot or sand blasting, water jet or grinder
3. **Primer:**  
In order to promote adhesion and prevent the surface from drawing resin from the FRP, a low viscosity epoxy primer is applied with a roller until the substrate is locally saturated.
4. **Putty**  
Adhesive, high viscosity putty is applied when necessary to the surface to fill in 'bug holes' offset or voids.
5. **Cutting Fabric:**  
In a clean area away from the resins, the fabric is carefully measured and cut in

accordance with the specifications.

**6. Saturating Fabric:**

On large, high volume projects, the fabric can be saturated using custom saturator. For lower volumes and shorter strips, the fabric can be either saturated on a table, or the surface can be coated with resin and the dry fabric applied.

**7. Applying Fabric:**

The pre-wetted, or dry, fabric is carefully laid onto the surface and smoothed out to remove air bubbles and ensure that the fibers are straight.

**8. Quality Control Monitoring:**

During the cure, 2 to 6 hours depending on ambient conditions, the fabric is checked to ensure that all air bubbles are removed and that the fabric is not sagging.

**9. Applying Second Saturate Coat & Sand Pasting:**

After inspection of wrapped fiber apply second coat of saturate on wrap and apply subsequent layer as per design. Apply coarse river sand if wrapping is followed by plastering or POP when second coat becomes tacky.

**10. Applying Bond Coat & Plastering:**

Apply compatible bond coat on wrapped surfaces and carrying out plastering with rich cement mortar.

**11. Applying Top Coat For Exposed Surface:**

Apply compatible UV resistant polyurethane top coat on wrapped surfaces in case of wrapping surfaces are exposed to direct sun light and wrapped surfaces are not plastered.

**Repair Methodology-2:**

This repair methodology is for the columns whose damage level is classified as ‘Mild’ and ‘Moderate’, which includes:

Supporting the structure.

Removal of unsound concrete from the affected area,

Protective treatment to the existing steel reinforcement.

Addition of the reinforcing steel, if required.

Building up the columns with high strength free-flow micro concrete,

1. In the above methodology the steps: I, ii, iii, and iv are the same as those explained in Repair ‘Methodology-1’,
2. Here jacketing of the columns is recommended with high strength free flow micro-concrete (strength not less than 50 MPa) right from the foundation level to make up the concrete that was lost due to delamination or chipping.
3. The specifications for this micro-concrete are explained in ....
4. Fiber wrapping is not required for the columns whose damage is classified as ‘Mild’ and ‘Moderate’.

**The Methodology for the repair of slabs.**

The damages have been classified in the following four categories.

**(2) Removal of Unsound concrete from Affected Area:**

The First step in preparing reinforcing steel for repair or cleaning is removing the deteriorated concrete surrounding the reinforcement. Care should be used to ensure that further damage to the reinforcing steel is not caused by process of removing the concrete. Impact breakers can heavily damage reinforcing steel if the breaker is used with out regard to the location of the reinforcement for this reason, a cover meter or reinforcing bar locator should be used to the determine the depth, size, quantity, and approximate location of the reinforcement in the concrete. Once the larger area

of unsound concrete has been removed, a smaller chipping hammer should be used to remove the concrete in the vicinity of the reinforcement. Care should be taken not to vibrate the reinforcement or otherwise cause damage to its bond to concrete adjacent to the repair area. No reinforcing bar is to be cut or removed without the approval of the engineer. All weak, damaged, and easily removable concrete should be chipped away. If the reinforcing bars are only exposed after all unsound concrete is removed, it may not be necessary to remove additional concrete to expose the full Circumference of the reinforcement. When the exposed reinforcing steel has loose rust, or corrosion products, or is not well bonded to the surrounding concrete, the concrete removal should continue to create a clear space behind the reinforcing steel of 6 mm (0.25 in.), plus the dimension of the maximum size aggregate of the repair material.

**(3) Providing Additional Reinforcing Steel:**

Makeup lost steel area due to corrosion by providing additional steel reinforcement. The steel shall confirm to IS 1786 grade Fe500D. Anchor the steel rebar in sound concrete body up to desired depth by structural GRADE adhesive. Fixing of rebars is to be with pre left binding wires with existing steel at regular grid after aligning concrete profile with new mortar up to existing steel face.

**(4) Strengthening Slabs**

Protective Measure against Deterioration of Building due to Corrosion of Reinforcement:  
The Following treatment is general is recommended for the affected concrete members:

- The loose and disintegrated concrete be removed.
- The Concrete surface should be thoroughly scrubbed by a hard steel wire brush to ensure that no loose mortar, disintegrated concrete, or concrete lumps are left. The scrubbed surface should then be cleaned by washing with water and free of dust particles. Preferably by blowing air under pressure.
- Apply the bond coat of Epoxy coating on the entire surface, to have a proper bond in between the old concrete and mortar.
- Make the column with polymer-modified cement mortar when the bond coat is tacky. Cement: sand mortar (1:3) used shall have 20% acrylic emulsion by weight of cement. It shall be cured for 7 days by sprinkling water.
- In case the concrete members is in good condition but there are small cracks or undulations, the cracks, joints, or undulations are repaired using epoxy sealant.

**Repair Methodology-2:**

This repair methodology is for the columns whose damage level is classified as ‘‘ Mild’’ and ‘‘ Moderate’’, which includes:

Supporting the structure.

Removal of unsound concrete from the affected area,

Protective treatment to the existing steel reinforcement.

Addition of the reinforcing steel, if required.

Building up the columns with high strength free-flow micro concrete,

1. In the above methodology the steps: I, ii,iii, and iv are the same as those explained in repair ‘‘ Methodology-1’’,
2. Here Jacketing of the columns is recommended with high strength free flow micro -concrete (strength not less than 50 MPa) right from the foundation level to make up the concrete that was lost due to delamination or chipping.
3. The specifications for this micro-Concrete are explained in.....
4. Fiber wrapping is not required for the column whose damage is classified as ‘‘Mild’’ and Moderate’’.

### **SPECIAL CONDITIONS**

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

16. The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipment's left out of his work & dress the site around the building to the complete satisfaction of the Engineer-in-Charge before the work is treated as completed.
17. Contractor has to quote against the item of schedule of credit of material. The contractor cannot quote either minus rate or Zero rate for these items.
18. Income tax and other taxes as applicable shall be deducted from the bills of the contractor.
19. 1% labor cess or as applicable will be deducted from the bills of the contractor.
20. 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. Agency has to take proper safety major during the execution of work.
22. **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. The contractor shall submit the program of execution of work as per clause 5 of GCC of IIT form 7/8 of NIT including list of workers to be deployed by contractor for this work.
24. 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.
25. GST shall considered as inclusive in quoted rate of agency.
26. 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
27. For item of water proofing Guarantee Bond shall be submitted by contractor as per format provided by IIT Delhi.
28. A separate amount @ 10% of the cost of water proofing work shall be retained as a security for the performance of water proofing work. This withheld amount shall be released Five years after the expiry of maintenance period, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within 7 days of receipt of intimation of defects in the water proofing work. If the defects pointed out not attended within the specified period, the same will be got done from other agency at the risk & cost of contractor. This amount shall be in addition to the security deposit mentioned elsewhere in the contract form. The amount withheld may be released in full against bank Guarantee of equivalent amount in favor of the **Registrar Indian Institute of Technology Delhi** of the prescribed period as mentioned above.

**INDIAN INSTITUTE OF TECHNOLOGY: NEW DELHI  
HAUZ KHAS: NEW DELHI**

**SPECIAL TERMS& CONDITIONS FOR WATERPROOFING / STRUCTURAL REPAIR**

1. The contractor shall give a performance test for the entire installation (S) as per the specifications in presence of the Engineer-in-charge or his authorized representative before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor on this account.
2. A Performance guarantee is to be given by the contractor for its satisfactory performance for 5 years as per format attached.
3. Chemicals from specified companies only should be used and precautions and mix proportions specified by the manufacturer should be adhered to.
4. All the chemicals to be used shall have a shelf life of one year. Old/expiry date material shall not be used for any repair and waterproofing.
5. The contractor shall depute a technically competent person to execute the job at the site.
6. The rate of each item shall include cleaning the existing surface, surface preparation, and application of fresh treatment, as per the relevant procedure.
7. All the mulba shall be disposed of by the contractor to the dumping ground approved by the MCD/NDMC or as directed by the Engineer-in-charge. The site shall be kept neat and clean during and after the completion of the work.
8. The dismantling/demolishing where required shall be done in a manner that no other portion of the building or its fixture or the existing flooring is damaged. In the event of any such damage, the same shall be made good by the contractor at his own cost and no claim whatsoever will be entertained on this account.
9. The contractor must submit fortnightly labor reports mandatory.
10. The contractor shall conduct his work, so as not to interfere with or hinder the progress of completion of the work being performed by other contractor (S) or by The Engineer-in-charge.

**FORM OF WATERPROOFING WORKS GUARANTEE BOND ON STAMP PAPER**

This agreement made this..... day of two thousand...

between M/s..... (Hereinafter called the Guarantor of the one part) and the BOG IIT Delhi (hereinafter called the Govt. of the other part).

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

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

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

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

In witness whereof of these presents have been executed by the Obligor...

and by..... For and on behalf of the BOG IIT Delhi on the day, month and year first above written.

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

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

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



## LIST OF APPROVED MAKES FOR CIVIL & ELECTRICAL WORKS

### A:- Civil Items

| S. No. | Description                                                         | Approved Makes                                                                                                                             |
|--------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Cement (Grey) OPC/ PPC Grade-43                                     | ACC/ L&T/J.K/ BIRLA/ULTRA TECH/ VIKRAM                                                                                                     |
| 2.     | Cement(White)                                                       | J.K/ BIRLA                                                                                                                                 |
| 3.     | Reinforcement Steel                                                 | PRIMARY MANUFACTURERS APPROVED BY MINISTRY OF STEEL/ SECONDARY MANUFACTURERS HAVING VALID BIS LICENSE (to be as per latest BIS provisions) |
| 4.     | Structural Steel                                                    | PRIMARY MANUFACTURERS APPROVED BY MINISTRY OF STEEL/ SECONDARY MANUFACTURERS HAVING VALID BIS LICENSE (to be as per latest BIS provisions) |
| 5.     | Stainless Steel (Grade 304)                                         | JINDAL/ SAIL/ SALEM                                                                                                                        |
| 6.     | Bricks                                                              | COMMERCIALY AVAILABLE OR REQUIRED STRENGTH                                                                                                 |
| 7.     | Paint/ primer/ oil bound distemper/ Acrylic paint/ plastic paint    | 1ST QUALITY PAINTS OF ASIAN/ BERGER/ NEROLAC/ SHALIMAR /DULUX                                                                              |
| 8.     | Water Proof Cement Paint/ Exterior Paint                            | 1ST QUALITY PAINTS OF ASIAN PAINTS/ BERGER/ NEROLAC/ SHALIMAR /DULUX                                                                       |
| 9.     | WPC Door Frame / WPC Board                                          | FLORESTA, ECOSTE, RAJ SHREE                                                                                                                |
| 10.    | Factory WPC Board Jali                                              | FLORESTA, ECOSTE, RAJ SHREE                                                                                                                |
| 11.    | ACP Panel                                                           | ALSTRONG /ALUCOBOND / EUROBOND/ ALUDECOR                                                                                                   |
| 12.    | GRC Wall Tile / Jali                                                | UNISTONE/ DALAL/ SWASTIK ALWAR / ULTRA                                                                                                     |
| 13.    | Anchor Fastener( Mechanical/ Chemical)                              | HILTI/ MUNGO/CANON/ FISCHER/ WUERTH                                                                                                        |
| 14.    | Rust remover / Rust converting primer /paint                        | FOSROC/SIKA/BASF                                                                                                                           |
| 15.    | polymer based zinc rich primer                                      | FOSROC/SIKA/BASF                                                                                                                           |
| 16.    | anticorrosive paint                                                 | FOSROC/SIKA/BASF                                                                                                                           |
| 17.    | Concrete penetrating HI-TECH Corrosion inhibitor                    | FOSROC/SIKA/BASF                                                                                                                           |
| 18.    | Thixotropic Epoxy repair mortar                                     | FOSROC/SIKA/BASF                                                                                                                           |
| 19.    | Latex / SBR Polymer Compound                                        | FOSROC/SIKA/BASF                                                                                                                           |
| 20.    | Low viscous epoxy resin grout                                       | FOSROC/SIKA/BASF                                                                                                                           |
| 21.    | Epoxy resin for Concrete bond coat                                  | FOSROC/SIKA/BASF                                                                                                                           |
| 22.    | Pre-batched non-shrink polymer-modified mortar                      | FOSROC/SIKA/BASF                                                                                                                           |
| 23.    | Pre-batched Pre Mixed Non- Shrink Micro Concrete                    | FOSROC/SIKA/BASF                                                                                                                           |
| 24.    | Pre-batched Pre Mixed Non- metallic composite fiber wrapping system | FOSROC/SIKA/BASF                                                                                                                           |
| 25.    | Epoxy for rebar/shear anchor                                        | FOSROC/SIKA/BASF/HILTI                                                                                                                     |
| 26.    | SS Pipe (304 grade) FOR WATER SUPPLY                                | JINDAL / TATA / ALFA PRESS / VIEGA                                                                                                         |
| 27.    | Epoxy flooring                                                      | FOSROC / SIKA / BASF                                                                                                                       |
| 28.    | Crystalline Waterproofing Compound.                                 | Penetron, Kryton & Xypex                                                                                                                   |

## **BID SUBMISSION**

### **ONLINE BID SUBMISSION**

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

| <b>Envelope – 1</b>                                     |                  |                                                                                                                                                                                                                                                                                                                                                                      |                   |
|---------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| (Following documents to be provided as single PDF file) |                  |                                                                                                                                                                                                                                                                                                                                                                      |                   |
| <b>Sl. No.</b>                                          | <b>Documents</b> | <b>Content</b>                                                                                                                                                                                                                                                                                                                                                       | <b>File Types</b> |
| 1.                                                      | Technical Bid    | Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR of any Scheduled Bank against EMD.                                                                                                                                                                                                                                                            | .PDF              |
| 2.                                                      |                  | Authorized applicator ship certificate from the construction chemical manufacturing company.                                                                                                                                                                                                                                                                         | .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.                                                      |                  | <b>Affidavit on Rs. 100/- Non judicial Stamp paper as per Notice Inviting Tender Condition 1.3 at page 8 of NIT. (Stamp Paper shall be purchased/ notarized between date of publishing and last date of submission of bids beside this NIT/Tender ID and name of work must be mentioned on the affidavit).</b>                                                       | .PDF              |
| 6.                                                      |                  | Acceptance to execute INTEGRITY PACT.                                                                                                                                                                                                                                                                                                                                | .PDF              |
| 7.                                                      |                  | Undertaking as per on firm`s letter head.<br><br><b>“The physical EMD shall be deposited by me / us with the Authority inviting the tender, in case I / we become the lowest tenderer, within a week of the opening of financial bid, otherwise, department may reject the tender and also take action to debar me / us from tendering in any form in IIT Delhi”</b> | .PDF              |
| 8.                                                      |                  | ESI and EPF Registration.                                                                                                                                                                                                                                                                                                                                            | PDF               |
| 9.                                                      |                  | FORM "F" (Duly filled with all required details                                                                                                                                                                                                                                                                                                                      | .PDF              |
| 10                                                      |                  | In case of Partnership firm if all the papers of tender not signed by all the partners than a power of attorney authorizing the person who has signed the tender paper must be uploaded with the tender documents.                                                                                                                                                   | PDF               |
| 11                                                      |                  | Average annual financial turnover during the last 3 financial years ending <b>31<sup>st</sup> march 2024</b> .                                                                                                                                                                                                                                                       | PDF               |
| 12                                                      |                  | Net Worth Certificate issued by CA with UDIN <b>OR</b> Banker`s certificate issued by a commercial bank.                                                                                                                                                                                                                                                             |                   |
| 13                                                      |                  | Annexure-I and Annexure-II (duly filled & signed by the bidders)                                                                                                                                                                                                                                                                                                     | PDF               |
| 14                                                      |                  | Annexure-III (duly filled & signed by the bidders)                                                                                                                                                                                                                                                                                                                   | PDF               |
| 15                                                      |                  | 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: - Structural Repair of RC members, additional support to cantilever verandah, removing damaged C.C. jali, and face lifting of Kailash Hostel at IIT Delhi**

**Sub Head: - Structural Repair works.**

| S. No | Description                                                                                                                                                                                                                                                                                                                                                              | Qty      | Unit  | Rate | Amount |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|--------|
| 1     | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :                                                                                                                                                                                                                       |          |       |      |        |
| 2     | 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)                                                                                                                                                                                                                      | 5.00     | cum   |      |        |
| 3     | Centering and shuttering including strutting, propping etc. and removal of form for                                                                                                                                                                                                                                                                                      |          |       |      |        |
| 4     | Lintels, beams, plinth beams, girders, bressumers and cantilevers                                                                                                                                                                                                                                                                                                        | 746.00   | sqm   |      |        |
| 5     | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.                                                                                                                                                                                                                          |          |       |      |        |
| 6     | Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                                                                                                                                                                                                                                                               | 6433.00  | kg    |      |        |
| 7     | 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 :                                                                                                                                                                                             |          |       |      |        |
| 8     | Cement mortar 1:4 (1 cement : 4 coarse sand)                                                                                                                                                                                                                                                                                                                             | 84.00    | cum   |      |        |
| 9     | 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.                                                                                                                                                                       |          |       |      |        |
| 10    | In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works                                                                                                                                                                                                                                                                                      | 13865.00 | kg    |      |        |
| 11    | Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :                                                                                                                                                       |          |       |      |        |
| 12    | In 75x75 mm deep chase                                                                                                                                                                                                                                                                                                                                                   | 331.00   | metre |      |        |
| 13    | 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. | 14.00    | each  |      |        |
| 14    | 12 mm cement plaster of mix:                                                                                                                                                                                                                                                                                                                                             |          |       |      |        |
| 15    | 1:4(1 cement: 4 coarse sand)                                                                                                                                                                                                                                                                                                                                             | 364.00   | sqm   |      |        |
| 16    | 6 mm cement plaster of mix :                                                                                                                                                                                                                                                                                                                                             |          |       |      |        |
| 17    | 1:3 (1 cement : 3 fine sand)                                                                                                                                                                                                                                                                                                                                             | 939.00   | sqm   |      |        |
| 18    | Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand):                                                                                                                                                                                                                                                                                |          |       |      |        |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |     |  |  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|--|--|
| 19 | Flush / Ruled/ Struck or weathered pointing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 364.00   | sqm |  |  |
| 20 | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |     |  |  |
| 21 | New work (Two or more coats applied @ 1.43 Itr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 14084.00 | sqm |  |  |
| 22 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |     |  |  |
| 23 | Two or more coats on new work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 686.00   | sqm |  |  |
| 24 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11260.00 | sqm |  |  |
| 25 | Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |     |  |  |
| 26 | Two coats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2258.00  | sqm |  |  |
| 27 | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |     |  |  |
| 28 | With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2258.00  | sqm |  |  |
| 29 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |     |  |  |
| 30 | With cement mortar 1:4 (1 cement : 4 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 500.00   | sqm |  |  |
| 31 | 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. | 4960.00  | sqm |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |  |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|--|--|
| 32 | Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 29.00   | cum |  |  |
| 33 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |
| 34 | In cement mortar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26.00   | cum |  |  |
| 35 | Demolishing mud phaska in terracing and disposal of material within 50 metres lead.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 227.00  | cum |  |  |
| 36 | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 903.00  | cum |  |  |
| 37 | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge": |         |     |  |  |
| 38 | With average thickness of 120 mm and minimum thickness at khurra as 65 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1515.00 | sqm |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |       |  |  |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--|--|
| 39 | Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge                              |         |       |  |  |
| 40 | 50mm average thickness                                                                                                                                                                                                                                                                                                                                                                                                                                          | 746.00  | sqm   |  |  |
| 41 | 25 mm average thickness                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1523.00 | sqm   |  |  |
| 42 | Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.                                                                                |         |       |  |  |
| 43 | Bars upto 12 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6680.00 | metre |  |  |
| 44 | Bars above 12 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3302.00 | metre |  |  |
| 45 | Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer- In-charge complete in all respect.                                                                                                                                                                                                                                                                                  |         |       |  |  |
| 46 | Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make                                                                                                                                                                                                                                                                                                                                                                                             | 2269.00 | sqm   |  |  |
| 47 | Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)                                                                                          |         |       |  |  |
| 48 | Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work                                                                                                                                                                                                                                                                                                         | 821.00  | kg    |  |  |
| 49 | Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineer-in-charge.                                                                                                                                                                                                                |         |       |  |  |
| 50 | Wooven PVC cloth                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4960.00 | sqm   |  |  |
| 51 | Providing and inserting 12 mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diametre (20 mm to 30 mm) up to depth from 30 mm to 80 mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer- In-Charge. | 8144.00 | each  |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |     |  |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|--|--|
| 52 | <p>Providing and fixing factory made 18 mm thick single extruded WPC (Wood Polymer Composite) solid plain white colour board Jali, CNC (Computer numeric control) routed of approved design by Engineer-in -charge which are machine cut for duct/ shaft covering, partitions and facades comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives(maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) minimum compressive strength 50 N/mm<sup>2</sup>, modulus of elasticity 850 N/mm<sup>2</sup> and resistance to spread of flame of Class A category with properties of being termite/borer proof, water/moisture proof and fire retardant and fixing on M.S (mild steel) frame made of 25 x 25 x 1.5 mm square hollow box section including applying a priming coat of approved steel primer, placed at grid made at 1.0 x 1.0 m or as per requirement at site with necessary stainless steel fasteners and SS screws etc., all complete as per direction of Engineer-In-Charge. (Note: M.S (mild steel) framework with priming coat and necessary SS fasteners and SS screws shall be paid separately.</p> | 1145.00 | sqm |  |  |
| 53 | <p>Providing and laying anticorrosive Treatment of Reinforcement by any approved make rebar corrosion protection system to existing reinforcement (The application shall be by brush). Process is to be complete as per the recommendation of manufacturer and direction of Engineer-in-charge. for payment exposed length of reinforcement will be measured. (Product - NITAZINC PRIMER of FOSROC / Sika Top-Armatec-108 Plus)/ MasterEmaco P 130 of BASF or equivalent of pidilite &amp; Krishna Conchem).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |     |  |  |
| 54 | Bars Upto 12 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9981.00 | Mtr |  |  |
| 55 | <p>Providing mixing &amp; applying pre-batched one component polymer modified dual shrinkage compensated thixotropic cementious patch repair mortar as per the manufacturer specifications and as per the direction the Engineer-in-charge. The compressive strength of polymer modified mortar shall be <math>\geq 45</math> Mpa (28 Days) according to ASTM C109. ( Product :- Renderock S2 of Fosroc/ SikaTop® 122 HS of Sika / MasterEmaco S 348 of BASF or equivalent of Pidilite)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |     |  |  |
| 56 | For 20 mm thickness over slab, beams, columns and stair case slabs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 939.00  | Sqm |  |  |
| 57 | <p>Providing and laying ready to use non shrink. Cementious free flow micro concrete of Compressive strength <math>\geq 50</math> MPa (28 days) according to ASTM C 109 of approved make and manufacture complete as per direction of Engineer-in-charge for replacing the carbonated part of concrete and repairing the damaged surface of concrete after fix the form work across the profile of damaged structural element. Pour the free flow non shrink. Cementious free flow micro concrete mix in the form work. Payment shall be made on the basis of consumed dry material of micro concrete mix.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |  |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |      |  |  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--|--|
|    | (Product :- Renderock RG of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |      |  |  |
| 58 | a) Without addition of aggregate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 143.00  | Ton  |  |  |
| 59 | Dismantling CC jali in walls laid in cement mortar including stacking material within 50 metres lead.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1145.00 | Sqm. |  |  |
| 60 | Injecting/Grouting shrinkage free low viscosity epoxy resin grout in structural cracks, wherever required by pressure and using mechanized injector gun with accessories till nozzles refused to accept the grout. Epoxy grout material should be conforming to ASTM-881-87 type I, grade I, class B & C and compressive strength of the material shall be $\geq 55$ Mpa, (7 Days), Tensile strength $\geq 20$ Mpa (14 Days) & Bond strength 10 Mpa (14 Days). Mixing of material : Mixing material components in required quantities as per manufacture's instruction. Grouting : Fill the grouting gun with low viscosity epoxy resin. Maintain desired pressure in the gun by air compressor: maintain the required pressure at exit. Grout the material through prefixed nozzles in structural elements till its refusal, seal the nozzles with epoxy putty after the refusal, monitor leakages through other nozzles while grouting and seal them as per the requirement, repeat the process for all the nozzles. complete the operation within pot life of the material. Cleaning the gun and accessories: Clean the gun and accessories (valves, pipes and other fixture) with thinner after the operation to avoid jamming of the gun. (Low Viscous epoxy grout : conbextra EP10 of Fosroc/ Sikadur®-52 of Sika/ MasterInject 1315 of BASF or equivalent of Pidilite & Krishna Conchem). | 2844.00 | Kg.  |  |  |
|    | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |      |  |  |

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.