

पूर्वी क्षेत्रीय विद्युत समिति/ Eastern Regional Power Committee
14 गोल्फ क्लब रोड, टॉलीगंज/14, Golf Club Road Tollygunge
कोलकाता/Kolkata – 700033

NOTICE INVITING TENDER

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR TENDERING FORMING PART OF BID
DOCUMENT AND TO BE POSTED ON WEBSITE

The Member Secretary, Eastern Regional power Committee (ERPC) invites **percentage rates** tender from approved contractors of CPWD/ state PWD for the following work as per details given below:

Sl No	NIT No	Name of work & Location	Estimated cost of the tender	Earnest Money	Period of completion of Work	Bank Guarantee of the work	Last Date of submission of bid, EMD.	Timing and date of opening tender.	Pre Bid Meeting	Place of pre bidding & Place of opening tender
1	N.I.T. No. Tender/ ERPC Estb./2023-24/5	Repair work of ERPC Office Building and Premises	Rs 16,46,914.45	Rs 32,938/-	100 days	Rs 1,64,691/-.	11.03.2024 14:00 PM	11.03.2024 15:30 PM	29.02.2024 11:00 AM	1 st Floor conference room, ERPC, 14 Golf Club Road, Tollygunge, Kolkata - 700033

Sealed Offers under two envelope system are invited from approved/ registered contractors of C.P.W.D./State P.W.D for Providing Repair Works /Services listed below under scope of work in this bid document.

Repair and maintenance work is divided in following blocks–

Block No	Description
1	Repair work of 2 nos. Shaft area at the back side of ERPC Building.
2	Repair work in the stairs of ERPC Building.
3	Repair work of 4 th floor except toilet therein.
4	Repair work of overhead water tank at ERPC Building.
4	Repair work of 4 th Floor Toilets.
5	Repair work of Garage building.
6	Repair work of structural Beam & Column of ERPC Building.
7	Other minor repair work.

Bid Document:

The blank Tender documents for Repair work of ERPC Office Building and Premises can be obtained from The Executive Engineer-in-charge (TS&C), ERPC, 14 Golf Club Road, Tollygunge, Kolkata – 700033 on all working hours between 11 A.M. to 4 P.M or may be downloaded from ERPC website of Eastern Regional Power Committee <https://erpc.gov.in/tender/> .

The Tenders shall be opened in the presence of the Tenderers, who desires to remain present on the 11.03.2024 15:30 PM at the 1st Floor Conference Hall of Eastern Regional Power Committee, 14 Golf Club Road, Tollygunge Kolkata - 700033.

All documents related to the tendering is enclosed-

1. Instructions to the tenderers – Annexure A
2. General conditions of contract- Annexure B
3. Contract agreement - Annexure C
4. Profile of contractor- Format-I
5. Experience of contractor -Format II
6. Format for financial bid- Format III
7. Format for performance guarantee- Enclosure I
8. Format for guarantee to be executed by contractor for removal of defects- Enclosure II
9. List of approved material Enclosure-III
10. Bill of Quantity (BOQ)- Enclosure -IV

(Anup Das)
कार्यपालक अभियंता (TS&C)

INSTRUCTIONS TO THE TENDERERS

1. Sealed offers under two envelope systems in the prescribed forms are invited from eligible tenderer for Providing Repair work of ERPC Office Building and Premises as per the notice inviting tender.
2. The amount of Earnest Money Deposit (EMD) shall be in the form of Demand Draft of scheduled Bank issued / drawn in favor of “Member Secretary, Eastern Regional Power Committee, 14 Golf Club Road, Tollygunge, Kolkata – 700033”.
3. The Earnest Money shall be placed in separate sealed cover by writing the name of work on the envelope. If the Earnest Money found not as per the prescribed manner as mentioned at Sr. no 2 above then, Technical/financial Bid shall not be opened.
4. Tender form duly signed in all respect with necessary Earnest Money Deposit in the prescribed manner as mentioned above shall only be considered. Incomplete and tenders without Earnest Money Deposit shall not be considered.
5. Last date of submission of tender is 11.03.2024 14:00 PM
6. Date of opening of tender is 11.03.2024 15:30 PM
7. Pre bid meeting will be held on 29.02.2024 11:00 AM at 1st Floor conference room, ERPC, 14 Golf Club Road, Tollygunge, Kolkata - 70003
8. Each and every page of the tender documents should bear the stamp and signature of the person whose name registration exists or he shall be authorized legally or any representative clearly by mentioning the name and stating that the person can sign the tender documents on his behalf. Format I, II & III enclosed shall be filled without exception.
9. The tenderer shall also enclose the following documents –
 - Profile of contractor agency (Format-I)
 - Copy of PAN
 - Copy of GST Certificate
 - Copy of Trade License
 - Copy of GST Returns for last three Assessment Years
 - Copy of IT Returns for last three Assessment Years
 - Copy of Profit Loss Balance Sheet for last three Assessment Years
 - Affidavit for declaration that contractor has not been blacklisted for last three Assessment Years
 - List of Manpower available with the vendor
 - Copy of TAN No, if available
 - Work experience of Last 3 years along with satisfactory performance certificate/ work completion certificate from their clients (Format-II)
 - Copy of valid CPWD/ state PWD registration certificate/ supporting document.
 - Copy of ESI, EPF registration etc wherever applicable
 - Copy of stamped and signed document of all pages of this NIT.

9. The site for the work can be seen on any working days during office hours by contacting The Executive Engineer (TS&C), ERPC, 14 Golf Club Road, Tollygunge, Kolkata – 700033. The tenderers

are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting the tenders, the form and nature of site, the means of access to the site. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed.

10. Vendor quoting the lowest percentage would be awarded the contract subject to fulfilment of all necessary eligibility criteria. However, the competent authority on behalf of ERPC does not bind him to accept the lowest or any other tender and reserves the right to reject any or all of the tenders without assigning any reasons thereof. All the tenders, in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.

11. Canvassing whether directly or indirectly, in connection with tenders strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

12. The competent authority on behalf of ERPC reserves with himself the right of accepting the whole or any part the tender and the tenderer shall be bound to perform the same at the rate quoted, Further ERPC reserves the right to execute whole or part of the proposed work & the quantity may vary as per actual requirement of ERPC. Contractors cannot raise disputes for the same.

13. The work shall remain open for acceptance for a period of Sixty days from the date of opening of tenders. If any tenders withdraw his tender before the said period, or issue of letter of acceptance/Indent whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable by the ERPC and, shall be without prejudice to any other right or remedy, be at liberty to forfeit 100% of the said earnest money.

14. Percentage rates shall be quoted in the tender form and the amount for each item should be worked out and requisite totals be given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word Rs. should be written before the figure and word P after the decimal figure e.g. Rs 2.15 P and in case of words, Rupees should be preceded and the word Paise should be written in the end, unless the rate is whole rupees and followed by the word only.

15. When there is a difference between the rates in figures and in words, rate quoted by the contractor in words shall be taken as correct.

16. On acceptance of the tender, the name of the accredited representative (s) of the contractor, who would be responsible for taking instructions from ERPC shall be communicated in writing to the Executive Engineer (TS&C), ERPC.

17. GST, Purchase tax, turn over tax, Service tax or any other tax, labor cess, in respect of the contract, is payable by the contractor, The ERPC, will not entertain any claim whatsoever in respect of the same.

18.Rates quoted shall be deemed to have inclusive of material, machinery, tools and plants, etc. & all taxes (including service tax), duties and levies, insurance etc.

19.The tenderer shall produce of their valid enlistment, Service Tax registration and ESI, EPF registration etc wherever applicable, with the appropriate authority.

20.Earnest money given by all the contractors except the three lowest tenderers shall be refunded within a week from the date of opening of the tenders. The earnest money given by the other two tenderers (except the one whose tender is accepted) should also be refunded within 15 days of the acceptance of the Work order by the lowest bidder.

21.The envelope containing tender document shall be sealed and clearly super scribed the name of work and the name and address of the tenderer.

22.Eligibility Criteria:

- The tenderer should have minimum THREE years' experience in CIVIL works of similar nature in reputed organizations preferably in Govt. and Public Sector.
- Tenderer has completed cumulative work of not less than Rs 50 Lakhs in last three years.
- The tenderer should have completed
 - two similar (repair & maintenance) work of value not less than rupees. 7.00 lacs each in last 3 (there) years.
 - OR
 - Four similar (repair & maintenance) works of value not less than rupees 5.00 lacs each last 3 (there) years.
- Tenderer must be a registered contractor of CPWD or State PWD for similar kind of works.
- Contractor must not be blacklisted for last 3 years by any government / public sector enterprise.
- Contractor should have a valid registration in West Bengal as on date.

23.Submission of bids: Proposals should be submitted in two separate envelopes namely, 'Technical Bid' and 'Financial Bid'. The technical and financial bids duly sealed in separate envelope and be kept inside a single third envelope which shall clearly super scribed as “**Tender for Providing Repair work of ERPC Office Building and Premises**” due on date 11.03.2024 up to 14.00P.M. The envelope should be clearly marked as 'Technical Bid' (Envelope-I) and 'Financial Bid' (Envelope-II). The third envelope shall contain the Earnest Money Deposited with covering letter.

24.Evaluation of Technical Bids: Bids received and found valid will be evaluated by the ERPC Tender opening Committee to ascertain the best-evaluated bid for the complete work/services, under the specifications and documents. The tenderer should take care to submit all the information sought by the ERPC in prescribed formats.

25. Financial Bid: The financial bid of the tenderers, whose technical bid is found to be suitable, will be opened in the presence of the tenderers, who desire to attend the opening of financial bid. Contractor tendered lowest percentage will be awarded the work contract.

26. Award of work:

- I. The selection of the agency will be at the sole discretion of the ERPC, who reserves the right to accept one or to reject any or all the tenders without assigning any reasons thereof.
- II. The contract for Providing Repair work of ERPC Office Building and Premises shall be awarded to the best qualified responsive tender.
- III. Upon evaluation of offers, the written notification for award of contract will be intimated to the successful tenderer to start the work.

27. Duly filled offer document shall be delivered by Hand Delivery in the office of ERPC at the following location/ address:

Tender box kept at the reception of 14 Golf Club Road, Tollygunge, Kolkata - 700033

28. The Tenderer should provide the complete Postal Address, telephone/Mobile/Fax/E- mail address, etc. while submitting the completed Tender form.

29. The agency will be responsible for complying with payment of minimum Wages as applicable under Central Government Rules and other benefits etc. to its employees deployed in the Office, as per labor Laws in force from time to time. The agency will be responsible to comply with laws related to Social Security such as E.S.I., P.F. etc as applicable and Service Tax wherever applicable and other Labour Legislations, Pollution Control and such statutory orders by Government/ Statutory Authorities/ Municipality which may be in force from time to time, if applicable.

GENERAL CONDITIONS OF CONTRACT

1. Definitions and Interpretation

In the Contract (as hereinafter defined) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:

- I. "Client" means the Eastern Regional Power Committee (ERPC) Secretariat and the legal successors in title to ERPC.
- II. "Engineer-in-charge" means the Assistant Executive Engineer (TS&C) ERPC or any person(s) nominated by Member Secretary, ERPC for the execution and monitoring of the of the work.
- III. "Contractor" means an individual or firms (proprietary or partnership) whether incorporated or not, that has entered into contract (with the Client) and shall include his/its heirs, legal representatives, successors and assignees. Changes in the constitution of the firm, if any, shall be immediately brought to the notice of the Client, in writing and approval obtained for continued performance of the contract.
- IV. "Contract" means the conditions, the Specifications, the Bill of Quantities, the Tender, the Letter of acceptance, the Contract Agreement (if completed) and such other documents as may be expressly incorporated in the Letter of Acceptance or Contract Agreement.
- V. "Specification" means the specification of the works included in the contract and any modification thereof. The items of works shall be executed in strict accordance with CPWD specifications.
- VI. "Drawings" means all the completion drawings, calculations, and technical information of a like nature provided by the Client to the Contractor under this contract and all drawings, calculations, samples, patterns, models, Repair/Repairs and Maintenance manuals and other technical information of a like nature submitted by the Contractor and approved by the Client.
- VII. "Bill of Quantities" or "BOQ" means the priced and completed bill of quantities, IF ANY, forming part of the Tender.
- VIII. "Tender" means the Contractor's price offer in percentage term to the ERPC or client for the execution and satisfactory completion of the works and the remedying of any defects therein in accordance with the provisions of the Contract, Specification as accepted by the Letter of Acceptance. The word Tender is synonymous with "Bid" and the words "Tender Documents" with "Bidding Documents".
- IX. "Letter of Acceptance" means the formal acceptance of the tender by ERPC in writing.
- X. "Contract Agreement" means the contract agreement, if any.
- XI. "Appendix to Tender" means the appendix comprised in the form of Tender annexed to these Conditions.
- XII. "Commencement Date" means the date on which the Contractor received the notice to start the works.
- XIII. "Time for Completion" means the time period for which the contract for "Repair work of ERPC Office Building and Premises" has been awarded by the Client to the contractor.
- XIV. "Taking Over Certificate" means a certificate issued by Client evidencing successful and satisfaction completion of the awarded work.

- XV. "Contract Price" means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works and the remedying of any defects therein in accordance with the provisions of the Contract.
- XVI. "Retention Money" means the aggregate of amount retained by the Client as Security Deposit from the start date of work and till 36 months after completion of the work.
- XVII. "Works" means the Permanent Works and the Temporary Works of either of them to be executed in accordance under the contract and contract specifications.
- XVIII. "Site" means the places provided by the client for Repair and Maintenance to the Contractor as per list annexed with the tender.
- XIX. "Cost" means all expenditure properly incurred or to be incurred, whether on or off the Site, including overhead and other charges but does not include any allowance for profit.

2. Duties and Authority of Engineer-in-charge

The Engineer-in-charge shall carry out the duties as assigned by Member Secretary, ERPC in respect of this contract.

3. Custody and Supply of Drawings and Documents

The Drawings shall remain in the sole custody of the Client/ Engineer-in-charge but copies as required thereof shall be provided to the Contractor at free of cost solely for the purpose of this contract.

4. Sufficiency of Tenderer

The Contractor shall be deemed to have based his Tender on the data made available by the Client and on his own inspection and examination of this site conditions. The acceptance of tender is deemed to have visited the site and made themselves conversant with the type of works incorporated in this tender.

5. Contractor's Employees

The Contractor shall provide qualified and experienced technical staff on site of work in connection with the Repair Works and the remedying of any defects therein. The minimum staff shall be as per the requirement of work mentioned in Bill of Quantities and entire work to be completed in due time.

6. Engineer-in-charge at Liberty to Object

The Engineer-in-charge shall be at liberty to object to remove forthwith from the Works, any person provided by the Contractor who, in the opinion of the Engineer-in-charge, misconducts himself, or is incompetent or negligent in the proper performance of his duties, or whose presence on site is otherwise considered by the Engineer-in-charge to be undesirable, and such person shall not be again allowed upon the Works without the consent of the Engineer-in-charge. These decisions would be made with the permission of Member Secretary, ERPC.

7. Safety, Security and Protection of the Environment

The Contractor shall, throughout the execution and till completion of the Works and the remedying of any defects therein:

i) Have full regard for the safety of all persons entitled to be upon the site and keep the site (so far as the same is under his control) and the Works (so far as the same are not completed or occupied by the Client) in an orderly state appropriate to the avoidance of danger to such persons, and Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when and where necessary or required by the Engineer-in-charge or by any duly constituted authority for the protection of the Works or for the safety and convenience of the public or others, and

ii) Take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others, resulting from pollution, noise or other causes arising because of his methods or Repair.

iii) All safety rules prescribed by the Government shall be strictly observed to execute the work and safety of manpower deployed.

8. (A) Insurance of work by the Contractor for his liability:

(i) During the Repair and Maintenance period for loss or damage to the property and life arising from a cause for which contractor is responsible.

(ii) For loss or damage occasioned by the Contractor in the Course of any repairs carried out by him for the purpose of complying with his obligations.

(iii) It shall be the responsibility of contractor to notify the Insurance Company of any charge in the nature and extent of the works and to ensure the adequacy of the Insurance cover at all times during the period of contract.

(B) Damage to Persons and Property

The Contractor shall, except if and so far as the Contract provides otherwise, indemnify the Client against all losses and claims in respect of

(i) Death of or injury to any person, or

(ii) Loss or damage to any property

Which may arise out of or in consequence of the Repair and Maintenance work under contract and the remedying of any defects therein, and again all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof.

9. Accident or injury to Workmen

The Client shall not be liable for or in respect of any damages or compensation payable to any workman under Compensation – Act for death or injury resulting from any act or default of the contractor. The

contractor shall indemnify and keep indemnified the Client against all such damages and compensation and expenses whatsoever in respect thereof or in relation thereto.

10. Evidence and Terms of Insurance

The contractor shall take out appropriate insurance to cover his work and workers and staff employed by him fully. The contractor shall provide evidence to the Engineer-in-charge/ Client as soon as practicable after the respective insurance have been taken out but, in any case, prior to the start of work at the Site that insurance required under the Contract have been effected.

11. Compliance with Statutes, Regulations

The Contractor shall conform in all respects, including by the giving of all notices and the paying of all fees, with the provision of:

- (a) Any National or State Statute, Ordinance, or other Law, or any regulation, or bye-laws of any local or other duly constituted authority in relation to the execution and completion of the Works and the remedying of any defects therein, and
- (b) The rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the Works, and the Contractor shall keep the Client indemnified against all penalties and liability of every kind for breach of any such provision.
- (c) Any changes required for approval due to revision of the local laws.

12. Default in Compliance by contractor.

In case of default on the Contractor in carrying out such instruction within the time specified therein or, if none, within a reasonable time, the Client shall be entitled to employ and pay other persons to carry out the same and all costs consequent thereon or incidental thereto shall, be determined by the Engineer-in-charge and shall be recoverable from the Contractor by the Client, and may be deducted by the Client from any payments due, or to become due, to the Contractor, Security deposit/ bank guarantee taken from the contractor and the Engineer-in-charge shall notify the Contractor accordingly.

13. Time for Completion

The Repair and Maintenance work shall be carried out within a period of 100 days after placement of LOA. However, mobilisation of the work must be done within 7 days from placement of the LOA.

14. Extension of Time for Completion

The Repair and Maintenance contract may be extended on the written mutual consent of both Client and Contractor for further period of maximum 50 days with due justification for extension from contractor. However, decision of Client would be binding on the contractor in this matter of extension of time period. Client reserves it's right to terminate the Repair and Maintenance contract by giving 15 days' notice at

any time during the currency of the contract if the services of the agency are not found satisfactory as per the opinion of Client or his representative for which, no claims or compensation shall be entertained by the Client.

15. Defect Identification and it's rectifications.

Contractor shall immediately attend the defects and complaints noticed. Defect Liability period shall be 3 (three) years from the date of completion of work under Bill of Quantities for measurable works. The contractor shall rectify at his own expenses, any defect in the work carried out by him during this period. On failure of the contractor to do so, the same shall be completed by the Client at the risk and cost of the contractor from his security deposit or bank guarantee.

16. Penalty for Delay or poor quality of work

If the Contractor fails to complete the work in due time and quality of work is not accepted by the Client or Engineer-in-charge, the Client can impose penalty on the contractor. This penalty will be recovered from any payments due, or to become due, to the Contractor, Security deposit/ bank guarantee taken from the contractor and the Engineer-in-charge shall notify the Contractor accordingly.

17. Contractor's Failure to Carry out Instructions.

In case of default on the part of the Contractor in carrying out defect rectification works, the Client/ shall be entitled to employ and pay other persons to carry out the same and if such work, in the opinion of the client, the Contractor was liable to do at his own cost under the Contract, then all costs consequent thereon or incidental thereto shall be determined by the client and shall be recoverable from the Contractor by the Client, and may be deducted by the Client from any payment due or to become due to the Contractor.

18. Instruction for Variations

Quantities given in the Bill of Quantity and it may increase or decrease in respect of the estimated quantities. The quantity of any item may vary to the extent not more than 25%. Variation in quantity in particular items or overall cost or addition or deletion of item will be verified by the Client, Engineer-in-charge, civil consultant appointed by the Client (if desired by the client) and contractor jointly. A joint measurement sheet would be signed among contractor, Engineer-in-charge and civil consultant appointed by the Client (if desired by the client) or any other expert nominated by Client and contractor during the final measurement.

During the execution of work, if any additional work is required to be done, it would be selected from latest DSR published by CPWD. If any item is not found in the DSR document, a market survey would be conducted by Engineer-in-charge/ Client/ any person(s) authorised by Client and rate of that item would be fixed according to the market survey. However final rate would be decided as per the CPWD standard norms and contractor would apply percentage rate quoted by him in his financial bid on those newly added/changed item(s) during submission of the bill. On failure to reach an agreement between

the Client and contractor regarding this variation, the Client's decision shall be final and binding on both sides.

19. Maintaining detailed registered.

All day-to-day work done by the contractor need to be entered in a register. This register should mention the BoQ item work and its measurement which would be verified by the civil consultant appointed by the Client. All entries are required to be signed by Engineer-in-charge/ any other person nominated by the Client.

All supply material for the work also required to be entered in another register. Format of all these registers would be decided mutually between the contractor and Client/ Engineer-in-charge. On failure to reach an agreement between the Client and contractor regarding this format, the Client's decision shall be final and binding on both sides.

20. Performance Guarantee:

Within two weeks of issue of letter of intent of work, the Contractor shall submit a Performance Security Bank Guarantee Bond for proper performance of the Contract in the format enclosed as Enclosure III.

The Performance guarantee shall be valid for the duration of the contract period plus 3 years.

The performance security can be encashed by the Client to recover any amount which is payable by the contractor to the Client on any account for a cause arising out of the contract, any default on the part of contractor, any damage made by the contractor, any penalty to be paid by the contractor etc.

Amount of performance guarantee would be of an amount of Rs 1,64,691/-.

21. Correction of Certificates

The Engineer-in-charge may have issued any Interim Payment Certificate, the correction or modification in any previous Interim Payment Certificate which has been issued by him, and shall have authority, if any work is not being carried out to his satisfaction, to omit or to reduce the value of such work in any Interim Payment Certificate.

22. Payment to the vendor –

Entire work has been divided in following blocks. Payment would be made after completion of these work blocks for the payment –

Block No	Description
1	Completion of repair of 2 nos. Shaft area at the back side of ERPC Building

2	Completion of repair work in the stairs of ERPC Building.
3	Completion of repair work of 4 th floor except toilet therein.
4	Completion of repair work of overhead water tank at ERPC Building
4	Completion of repair work of 4 th Floor Toilets
5	Completion of repair work of Garage building
6	Completion of repairing/ modification work of structural Beam and column
7	Completion of other repair work.

After completion of each block, contractor would submit a measurement sheet as per register and work completed accordingly to BOQ. Measurement sheet would be verified by the Civil consultant of ERPC. A joint measurement sheet would be signed among contractor, client, Engineer-in-charge, civil consultant of ERPC (if desired by client) jointly. Accordingly, bill would be paid to the vendor. Vendor would maintain a daily work register for the same.

23. Default of Contractor:

If the performance of the contract is not satisfactory and not corrected within 15 days of receiving notice, then Client shall be at liberty to terminate the contract.

24. Amicable Settlement of Dispute:

The party shall use their best efforts to settle amicably all disputes arising out of or in connection this contract or the interpretation thereof.

25. Arbitration:

Any dispute and differences relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship of materials used in the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions or these conditions or otherwise concerning the works or the execution of failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof in respect of which amicable settlement has not been reached shall be referred

o the Sole Arbitrator appointed by the ERPC, who shall proceed as per the Arbitration Act, 1996.

o The Work under the contract shall continue, during the Arbitration proceedings.

o The award of the Arbitrator shall be final, conclusive and binding on both the parties.

26. Payment on Termination:

In the event of termination of the contract, Client shall be at liberty to get balance work done at the risk and cost of the contractor and due payment of the contractor, if any, shall be released after the completion of works as decided by client. If payment is due to the ERPC in the matter of penalty, default on contractor, same would be recovered from final bill or encashment of the performance guarantee.

ERPC

CONTRACT AGREEMENT

This CONTRACT (hereinafter called the “Contract”) is made on theday of the month of, 2024 between Member Secretary, Eastern Regional Power Committee, 14 golf Club Road, Tollygunge Kolkata - 700033 on the one hand (hereinafter called the Client) and on the other hand.....(hereinafter called the Contractor).

WHEREAS

- (a) The Client has accepted the offer of the Contractor to execute the repair work of ERPC Office building and premises.
- (b) The Contractor, having represented to the client that they have the required professional skills, personnel & technical resources and has agreed to provide the services and execute the works on the terms and conditions set forth in this Contract Agreement.

Now therefore, the parties hereto/herby agree as follows:

1.0 The following documents attached hereto shall be deemed to form an integral part of this contract:

1	Notice Inviting Tender & Instructions to Tenderers	Annexure 'A'
2	General Conditions of Contract	Annexure 'B'
3	Contract Agreement alongwith Enclosure I, II , III & IV and Format No. I , II & III	Annexure 'C'

2.1 The mutual rights and obligations of the Client and the Contractor shall be as set forth in the contract in particular:

- a) The Contractor shall carry out the services in accordance with the provisions of the contract and,
- b) The Client shall make payments to the contractor in accordance with the provisions of the contract.

In witness whereof, the parties hereto have caused this contract to be signed in their respective names as of the day and year first above written.

FOR AND ON BEHALF OF
[CLIENT]

Member Secretary, ERPC

FOR AND ON BEHALF OF
[CONTRACTOR]

Sign of Contractor
Date :
Place :

ERPCC

Profile of Contractor**(with an outline of the experience of the firm for similar works during last three years)**

- a) Name of the firm.
- b) Year of registration.
- c) Type of firm (Individual/Proprietary/Limited Company or any other)
- d) Profile of agency
- e) PAN No
- f) GST No
- g) Trade License No
- h) GST Returns Amount for last three Assessment Years

FY 2020-21	FY2021-22	FY2022-23

- i) IT Returns for last three Assessment Years

FY 2020-21	FY2021-22	FY2022-23

- j) Profit Loss Balance Sheet Amount for last three Assessment Years

FY 2020-21	FY2021-22	FY2022-23

- k) No of Manpower-
- l) TAN No, if available-
- m) CPWD/ state PWD registration certificate No/ Supporting document.
- n) ESI, EPF registration No-
- o) Other-

EXPERIENCE OF CONTRACTOR

Experience of similar work completed during last three years preceding December 2023 details of completed and ongoing works, works tendered for etc. Use separate sheet for each work.

1	Project title & Location:	
2	Name of the Client and Address:	
3	Describe area of participation (Specific Work done/services rendered by the applicant)	
4	Period of work Done/Services rendered for the project	
5	Total cost of work of Annual Repairs and Maintenance works	
6	Date of start of the work and the present status	
7	Any other details	

NOTE :-

Supporting authenticated documents, like certificates from the client in support of each of the above works/project to be furnished in original when asked for.

Sign of Contractor:

Date :

Place:

FINANCIAL BID

To
The Member Secretary,
ERPC Secretariat, 14 Golf Club Road,
Tollygunge Kolkata- 700033,

Sub: Quotation of percentage rate for financial bid for Repair work of ERPC Office Building and Premises.

Ref Tenders No.: Tender/ERPC Estab/2023/2024/5

Sir,

I/we, the undersigned certify that I/we have carefully gone through and clearly understood the terms & conditions of the tender document, the work requirements and undertake to comply with them. I/we further undertake to execute and complete the works as per tender's terms and conditions.

I/We have signed and sealed every page of the tender document as token of our acceptance of all the terms and conditions of the tender.

After considering the repair work to be carried out in the ERPC Office building and premises, I/we the contractor (name of the contractor/ agency/ vendor) agrees to quote the price at(%).....(in words) of the BOQ rate. This percentage would be applicable on all the BOQ items. In case of addition/modification of any item mentioned in the tender document, same percentage rate would be applicable during raising the bill.

My/our offer shall be valid for a period of 60 days from the date of opening of the Tender.

Thanking you,

Yours faithfully,

Signature _____

For M/s. _____

Date _____

Name _____

Address _____

Seal of Contractor/Tenderer

Performance Guarantee

On non judicial stamp paper of minimum Rs. 100

(Guarantee offered by Bank to ERPC in connection with the execution of contracts)

**FORM OF BANK GUARANTEE FOR
PERFORMANCE GUARANTEE / SECURITY DEPOSIT / MOBILIZATION ADVANCE.**

1. Whereas the Member Secretary, Eastern Regional Power Committee (ERPC), 14 Golf Club Road, Tollygunge, Kolkata- 700033, (hereinafter called "The Client") has entered into an agreement bearing number _____ with _____ (name and address of the contractor) _____ (hereinafter called "the Contractor") for execution of work _____ (name of work)
2. The Client has further agreed to accept an irrevocable Bank Guarantee for Rs. _____ (Rs. _____ only) valid upto _____ (date)* _____ as Performance Guarantee / Security Deposit / Mobilization Advance from the said contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
3. We _____ (indicate the name of the bank) _____ (herein after referred to as "the bank"), hereby undertake to pay to the client an amount not exceeding Rs. _____ (Rupees _____ only) on demand by the client within 10 days of the demand.
4. We _____ (indicate the name of the bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Client stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ Only).
5. We _____ (indicate the name of the bank) further undertake to pay the Client any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under the Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
6. We _____ (indicate the name of the bank) further agree with the Client that the Client shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Client against the said contractor and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor or for any for-bearance, act of omission on the part of the Client or any indulgence by the Client to the said contractor(s) or by any such matter of thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

7. We _____ (indicate the name of the bank) further agree that the Client at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Client may have in relation to the Contractor's liabilities.
8. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor.
9. We _____ (indicate the name of the bank) lastly undertake not to revoke this guarantee except with the previous consent of the Client in writing.
10. This guarantee shall be valid upto _____ unless extended on demand by Client. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. _____ (Rupees _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Date :

Witnesses :

Authorized signatory
Name
Designation
Staff Code no.

Bank seal

1. Signature _____
Name and address

2. Signature _____
Name and address

**GUARANTEE TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER
COMPLETION IN RESPECT OF REPAIRING WORKS.**

The Agreement made this day of two thousand and between son of of (hereinafter called the Guarantor of the one part) and the Member Secretary, Eastern Regional Power Committee (ERPC), 14 Golf Club Road, Tollygunge, Kolkata-700033 (hereinafter called Client of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated and made between the GUARANTOR of the one part and the Client of the other part, whereby the Contractor, inter alia, undertook to rectify defects on the works done by him during execution of the repair work.

AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for three years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be three years to be reckoned from the date after the completion of the repair work in each block of work in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
- (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
- (c) The decision of the Engineer-in-charge, ERPC with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the Engineer-in-charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the client as to the cost, payable by the Guarantor shall be final and binding.

That if GUARANTOR fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Client the decision of member Secretary will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligator _____ and by _____ on the day, month and year first above written.

SIGNED, sealed and Delivered by OBLIGATOR in the presence of :

1.

2.

SIGNED OR AND ON BEHALF OF CLIENT BY _____ in the presence of:

1.

2.

ERPCC

LIST OF APPROVED MATERIALS AND BRANDED & SPECILISED AGENCIES LIST OF PREFFERED MAKES

Note :

1. The contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material. The contractor shall make a detailed list with catalogues and highlight proposed specification as well as full details of the works executed by the specialized agencies, as specified.
2. Wherever applicable, the Engineer-in-charge may approve any material equivalent to that specified in the tender document, subject to proof being offered by the contractor for equivalence to his satisfaction.
3. Unless otherwise specified, the brand / make of the material as specified in the item nomenclature, in the particular specification and in the list of approved materials attached in the tender, shall be used in the work.
4. In case of non-availability of the brand specified in the contract the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand. The necessary cost adjustments on account of above change shall be made for the material.
5. The Engineer-in-charge shall verify that manufacturers must have valid IS Certification as on date for materials wherever applicable.
 - a. The following brands shall be used if not otherwise mentioned in the items.

1	CEMENT	ACC, ULTRA TECH, J. P. CEMENT, VIKRAM, SHREE CEMENT, BIRLA SHAKATI, CEMENT CORPORATION OF INDIA, VASAVDUTTA.
2	WHITE CEMENT	J.K., BIRLA
3	READY MIX CONCRETE	SKYWAY, A.C.C., ULTRATECH, LAFARGE, RMC READY MIX , GODREJ
4	PLASTICIZER, ADMIXTURE, SUPER PLASTICIZER, CURING COMPOUNDS.	SIKA, FOSROC, BASF, , SUNANDA CHEMICALS LTD, ROFE / Dr. FIXIT (PIDILITE INDUSTRIES), CICO, ARDEX ENDURA (BAL ENDURA)
5	REINFORCEMENT STEEL (TMT Fe 500D)	SAIL, TATA STEEL, RINL, JINDAL STEEL & POWER LTD. (JSPL), JSW STEEL LTD.
6	STRUCTURAL STEEL	TATA STEEL, SAIL, RINL, JINDAL, APPOLO, VIZAG
7	AAC BLOCKS	BIRLA AEROCON, SIPOREX, ULTRATECH, ECOLITE
8	ADHESIVE FOR AAC BLOCK / TILES	ULTRATECH, ARDEX ENDURA, FERROUS CRETE

9	METALLIC / STEEL FIRE DOOR	SHAKTI, PROMAT FIRE, NAVAIR, GODREJ, SIGNUM FIRE, SUKRI, KENWOOD, BHAWANI FIRE
10	FIRE RATED GLASS	SAINTGOBAIN, PROMATE FIRE, SCHOTT, PILKINTON, BHAWANI FIRE
11	CALCIUM SILICATE BOARD	STARPAN, HILUX, AEROLITE, PROMAT
12	FLUSH DOOR SHUTTERS	JAYNA (JAIN WOOD INDUSTRIES), KENWOOD, ANCHOR, KUTTY, GREENPLY, NATIONAL, MAYURPLY, MP WOOD, DUROPLY, CENTURY, REGENCY, DURIAN (Note: Only ISI marked flush doors shutters to be used)
13	HYDRAULIC DOOR CLOSER, FLOOR SPRING	HARDWYN, DORMA, GODREJ, EVERITE, DORSET, HAFELE, HETTICH, KICH
14	LOCKS & LATCHES	GODREJ, DORSET, HEFELE, YALE, LINK
15	ALUMINUM DOOR WINDOW FITTINGS	CLASSIC, DEFINE, BHORUKA, JYOTHI, SIGMA, EBCO
16	WATER PROOF, COMMERCIAL & FIRE RETARDENT PLYWOOD ABD BLOCK BOARDS	ANCHOR, ARCHID, KITPLY, GREEN PLY, CENTURY, MAYUR PLY, DUROPLY, REGENCY
17	LAMINATES	FORMICA, MERINO, GREENLAM, CENTURY, ARCHID, KITPLY, SUNMICA, DECOLAM, ASISLAM
18	VENEERS	ANCHOR, ARCHID, KITPLY, GREEN PLY, CENTURY, MARINO, MAYUR PLY, DUROPLY, DURIAN
19	PRELAMINATE D PARTICLE BOARD EXTERIOR GRADE	GVK NOVAPAN, MARINO, KITPLY, TESA, ECOBOARD, ARCHID, CENTURY, GREENLAM, ACTION TESA, GREENLAM

20	HIGH DENSITY (HDF), PRELAMINATE D BOARD	PERGO, GREENPLY
21	WOODEN ADHESIVE	PIDILITE, NATIONAL
22	SS BUTT HINGES	PRAYAG, OZONE, DORMA, KICH, HAFELE
23	STAINLESS STEEL SCREWS	KUNDAN, ALLOY LTD., GKW, NETTLEFOLD, ATUL FASTENER.
24	ANCHOR / SS STONE CLADDING CLAMPS / DASH FASTENERS	HILTI, FISCHER, ANCHOR, CANNON. BOSCH
25	SS BOLTS, WASHERS, NUTS	KUNDAN, POOJA, ATUL, HILTI
26	S. S. HANDLES	DORMA, KICH, HAFELE, DORSET
27	DOOR STOPPER / INDICATOR BOLT / PUSH PLATE	DORMA, KICH, HAFELE, MAGNUM
28	PVC DOOR FRAMES AND SHUTTERS	RAJSHREE, PLASTIWOOD, SINTEX, ACCURA, DUROPLAST
29	UPVC DOORS, DOOR FRAMES AND WINDOWS	DUROPLAST, LG INDIA, ALUPLAST, PROFILE INDIA, REHAU, FENASTA, WINTech
30	SS FRICTION HINGES	HETICH, HAFELE, EBCO, ROTO
31	ROLLING SHUTTERS & GRILLS	STANDARD, SWASTIK, SHUBDHWAR
32	STAINLESS STEEL PIPES FOR RAILING	MADE FROM SALEM STEEL, JINDAL OR SAIL SHEET.

33	VITRIFIED TILES	AGL, RAK, KAJARIA, H & R JOHNSON, SOMANY, NITCO, ORIENT BELL, AMBANI TILES
34	CERAMIC TILES	AGL, RAK, KAJARIA, H & R JOHNSON, SOMANY, NITCO, ORIENT BELL, AMBANI TILES
35	ADHESIVE	SIKA, PIDILITE, CICO, FOSROC, DUNLOP
36	GROUTS	ARDEX ENDURA, FERROUS CRETE, MYK LATICRETE, BASF, FOSROC, PIDILITE, SAINT GOBAIN
37	COMPOSITE / ITALIAN MARBLE	NITCO, CLASSIC MARBLE, EURO, ASIAN
38	WOODEN FLOORING	WELSPUN, ACTION TESA, ARMSTRONG, DURAFLOOR, PERGO, GREENLAM
39	WOOD PLASTIC COMPOSITE (WPC) FLOORING	EGO, EBACO, HEM INTERIOR (WPC DECK)
40	PVC FLOORING	LG HAUSYS, ARMSTRONG, GERFLOR
41	CARPET TILES & ROLLS	WELSPUN GROUP, ROYA, SMJ, SHAW
42	GYPSUM BOARD / GLASS REINFORCED GYPSUM TILE FOR FALSE CEILING	SAINT GOBAIN GYPROC INDIA, USG BORAL BOARD, ARMSTRONG, DIAMOND
43	FALSE CEILINGS & SECTIONS	AEROLITE, ANUTONE, ARMSTRONG, KNAUF, USG BORAL, HUNTER DOUGLAS, SAINT GOBAIN, DIAMOND
44	METAL FALSE CEILING	ARMSTRONG, HUNTER DOUGLAS, INTERARCH.
45	CALCIUM SILICATE FALSE CEILING TILES	HILUX, AEROLITE
46	ROCK WOOL/ GLASS WOOL	VETROTEX INDUSTRIES PVT. LTD., UP TWIGA, ROCK WOOL INDIA LTD., DOW CORNING
47	POLYCARBON ATE SHEET	LEXAN, MG POLYPLAST, GE SILICONS, DANPALON, POLYGAL INDIA

48	ALUMINIUM ALLOY SHEET	KALZIP OR EQUIVALENT
49	ZINCALUME PROFILE SHEET	TATA BLUE SCOPE, PENNAR, CRIL (COLOR ROOF INDIA LTD).
50	PRE MIXED CEMENT SAND MORTAR	PURE, WALPLAST, ULTRATECH
51	READY MADE GYPSUM PLASTER	FERROUS CRETE, ULTRATECH, GYPROC
52	WOOD PRIMER	ICI DULUX, ASIAN PAINTS (WOOD PRIMER- WHITE / PINK), BERGER PAINTS, NEROLAC, GODAVARI
53	STEEL PRIMER (RED OXIDE ZINC CHROMATE PRIMER)	ICI DULUX, ASIAN PAINTS, , BERGER, NEROLAC
54	CEMENT PRIMER	NEROLAC, BERGER, BP WHITE OF BERGER, DECOPRIME WT OF ASIAN PAINTS, WHITE PRIMER OF ICI DULUX
55	OIL BOUND WASHABLE DISTEMPER / DRY DISTEMPER	PROFESSIONAL ACRYLIC DISTEMPER OF ASIAN PAINT, MAXILITE OF ICI DULUX, BEAUTY ACRYLIC DISTEMPER OF NEROLAC, BISON ACRYLIC DISTEMPER OF BERGER
56	1 st QUALITY ACRYLIC DISTEMPER (WASHABLE / READYMIX / LOW VOC)	ASIAN PAINTS; (TRACTOR AQUA LOOK PAINT), BERGER: (COMMANDO), NEROLAC, ICI DULUX
57	ACRYLIC EMULSION PAINTS (INTERIOR)	PREMIUM INTERIOR EMULSION OF ASIAN, SUPER COVER OF ICI DULUX, BEAUTY GOLD OF NEROLAC, RANGOLI TOTAL CARE OF BERGER, GODAVARI
58	PREMIUM ACRYLIC EMULSION PAINTS (INTERIOR)	ASIAN PAINTS (ROYAL LUXURY EMULSION), NEROLAC (IMPRESSION), BERGER (SILK), ICI DULUX (VELVET TOUCH)

59	PLASTIC EMULSION PAINT	ASIAN PAINTS (APCOLITE HEAVY DUTY PREMIUM EMULSION PAINT), NEROLAC (IMPRESSION), BERGER (EASY CLEAN), ICI DULUX (3 IN 1)
60	WATER PROOFING CEMENT PAINT	ASIAN PAINT, BERGER, DULUX, SNOWCEM, GODAVARI
61	ACRYLIC SMOOTH EXTERIOR PAINT	APEX OF ASIAN PAINT, WEATHER SHIELD OF ICI DULUX, XL OF NEROLAC, WEATHER COAT OF BERGER, GODAVARI
62	PREMIUM ACRYLIC SMOOTH EXTERIOR PAINT	APEX ULTIMA OF ASIAN PAINT, WEATHER SHIELD MAX OF ICI DULUX, XL TOTAL OF NEROLAC, WEATHER COAT ALL GUARD OF BERGER, GODAVARI
63	SYNTHETIC ENAMEL PAINT	APCOLITE PREMIUM GLOSS ENAMEL OF ASIAN PAINTS, SYNTHETIC HI GLOSS OF NEROLAC, LUXOL HI GLOSS OF BERGER, GLOSS SYNTHETIC ENAMEL OF ICI-DULUX
64	FIRE RETARDANT PAINT	JOTUN, PROMAT, DULUX AKZONOBEL, ASIAN PAINTS
65	EPOXY PAINT	ASIAN PAINT, BERGER, SHALIMAR, NEROLAC, ARDEX ENDURA, ICI, AKZONOBEL
66	WHITE CEMENT BASED PUTTY	MR. PUTTY, BIRLA WALL CARE, J K WHITE, ASIAN, BERGER, ARDEX ENDURA
67	MELAMINE POLISH	ASIAN PAINTS: MELAMINE GOLD, PIDILITE INDUSTRIES: WUDFIN, ICI DULUX; TIMBERTONE.
68	TEXTURED EXTERIOR PAINT	ASIAN PAINTS, SPECTRUM PAINTS, HERITAGE, ICI DULUX, NEROLAC, BERGER, ULTRATECH PAINTS
69	UPVC PIPES AND FITTINGS	SUPREME, ASTRAL, ASHIRWAD, FLOW GUARD, FINOLEX, PRINCE, BIRLA AEROCON
70	HDPE PIPES	RELIANCE, JAINPIPES, ORIPLAST, SUPREME
71	CENTIFUGALLY CAST (SPUN) IRON PIPES AND FITTINGS	NECO, SKF, KAPILANSH, RPMF
72	G.I. PIPES AND FITTINGS	SAIL, ZENITH, TATA, JINDAL (HISSAR), PRAKASH SURYA

73	CPVC PIPES & FITTINGS	ASTRAL, ASHIRWAD, FLOWGUARD, BIRLA AEROCON, SUPREME, FINOLEX, PRINCE, FLOWGUARD
74	PPR PIPES	SFMC, PRINCE, KPT PIPES, SUPREME
75	SS PRESS FIT PIPES & FITTINGS	J - PRESS OR EQUIVALENT
76	D I PIPES & FITTINGS	ELECTROSTEEL, JINDAL, TATA DUCTURA, SRIPIPES (LENCO)
77	C P BRASS WATER SUPPLY FAUCETS (FITTINGS) SUPERIOR RANGE	JAQUAR, KOHLER, ROCA, MARC, GROHE
78	C P BRASS WATER SUPPLY FAUCETS (FITTINGS) NORMAL RANGE	HINDWARE, JAQUAR (ESSCO SERIES), PARRYWARE PRIMA (ISI MARKED), CERA ESS, PLUMBER
79	SANITARY WARES	JAQUAR, KOHLER, ROCA, CERA, HINDWARE, PARRYWARE
80	TOILET MODULAR CUBICALS	MERINO BY BESCO, MATRIX CUBICLE SYSTEM, JAGUAR
81	S. S. SINK	NEELKANTH, NIRALI, JINDAL, FUTURA, CERA, DIAMOND, HINDWARE, JAYNA
82	VALVES	ZOLOTO, LEADER, KIRLOSKAR, ARCO, GM, AUDCO,
83	FLOAT GLASS MIRROR	MODIGUARD, SAINT GOBAIN, ASAHI, ATUL
84	NP2 CLASS, R.C.C. PIPES	JAIN SPUN PIPE, K. K. SPUN PIPE, THE INDIAN HUME PIPE CO. LTD., PATEL HUME PIPES
85	S. F. R. C. COVERS	K. K. SPUN PIPE, JAIN SPUN PIPE, S. S. INDUSTRIES, PRAGATI
86	PVC TANKS	SINTEX, PLASTO, LOTUS (ISI MARKED)
87	PAVER BLOCKS / TACTILE TILE	VYARA, SUPER, JOHNSON

88	ALUMINIUM EXTRUSION SECTIONS	JINDAL ALUMINUM LTD., HINDALCO, INDAL BHORUKA ALUMINUM LTD., SAPA PROFILES INDIA LTD., GLOBAL ALUMINIUM PVT. LTD.
89	ANODIZING	LAKSHMI ANODISERS, AURA ARCHITECTURAL COATINGS, ALUFIN, BHORUKA
90	FLOAT GLASS	SAINT GOBAIN, ASAHI GLASS, EMIRATES GLASS, GUARDIAN GLASS, HNG, PILKINTON GLASS
91	REFLECTIVE SOFT COATED / LOW E GLASS	SAINT GOBAIN, ASAHI GLASS, EMIRATES GLASS, GUARDIAN GLASS, GLAVERBEL
92	GLASS PROCESSER	SAINT GOBAIN, ASAHI GLASS, EMIRATES GLASS, GUARDIAN GLASS (SUNGUARD), SEJAL, GLASSTECH, FUSO, FG, GSC, NSD, SCHOTT.
93	SPIDER PATCH FITTING, FOR CURTAIN GLAZING	DORMA, HAFELE, KICH, OZONE, SEVAX OF SAINT GOBAIN
94	GLASS DOOR HARDWARE	DORMA, KICH, HEFELE, OZONE, GEZE, DORSET,
95	AUTOMATIC SLIDING DOOR OPERATING SYSTEM	DORMA OR EQUIVALENT
96	ALUMINIUM COMPOSITE PANEL	ALUDECOR, EUROBOND, ALSTRONG, ALUCOBOND, ALPOLIC
97	EPDM GASKETS	AMEE RUBBER INDUSTRIES PVT. LTD. , BOHRA RUBBER, ANAND NVH, ROOP POLYMER, OSAKA.
98	BACKER ROD	SUPREME INDUSTRIES, NORTON, BOW, AASTHA
99	ALL TYPES OF SILICONE	DOW CORNING, BASF, GE, WACKER
100	MASKING TAPE	3M, SUN, WONDER TAPE, ROOP POLYMER
101	WATERPROOFING COMPOUND (FOR PLASTER & MORTER)	PIDILITE: LW+, ASIAN PAINTS: SMART CARE VITALIA, FOSROC: CONPLAST 421, SIKA: SIKACIM, STRUCO EXCEL, CICO, MYK LATICRETE, BASF INDIA LTD.
102	MEMBRANE WATER	BASF, FERROUS, CRETE, SHALIMAR, PIDILITE, ARDEX ENDURA, MYK ARMENTS.

	PROOFING SYSTEM	
103	WATER PROOFING FOR TOILETS & WET AREAS	FOSROC: BRUSH BOND, CICO: TAPECRETE, DR. FIXIT; PIDIFINE 2K, SIKA: NITO BOND, ASIAN PAINTS: DAMP BLOCK 2K, SUNANDA, PERMA, BASF, ARDEX ENDURA.
104	CRYSTALLINE WATER PROOFING COMPOUND	FOSROC: FOSROC CRYSTALLINE, DR. FIXIT: DR. FIXIT CRYSTALLINE, SIKA: SIKA CRYSTALLINE, ASIAN PAINTS: CRYSTALLINE QUART, BASF, CICO, ARDEX ENDURA
105	APP MODIFIED WATER PROOFING MEMBRANE	SHALIMAR, FERROUS CRETE, PIDILITE, ARDEX ENDURA, HYDROTECH
106	GALVANIZATION	JENCO GROUP, SADHANA ENGINEER-IN-CHARGEING CORPORATION OF STEELITE ENGINEER-IN-CHARGEING LTD.
107	HYDROPHOBIC COATING	DUPONT, DOW CORNING, EVERCRETE, AQUAMIX
108	PVDF COATING	AURA ARCHITECTURAL COATINGS, M. J. COATERS PVT. LTD., S P ARCHITECTURAL COATINGS PVT LTD., AMECO.
109	GLASS FIBER STRAND	SAINT GOBAIN, NIPPON ELECTRIC GLASS CO. LTD, STERLITE
110	SMC Panel Tank	AMITEX, SINTEX OR EQUIVALENT

BOQ Part 1

SL. NO.	DSR ITEM NO.	DESCRIPTION	Unit	Total Qty	DSR Rate/ NDSR Rate	Total Cost
1.0	2.0	3.0	4.0	5.0	6.00	7.00
		DEMOLITION OF EXISTING RUINED STRUCTURE				
1.0	15.7.4	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. In Cement Mortar.	CUM	4	1,698.45	6,793.80
2.0	15.3	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.	CUM	5	2,928.10	14,640.50
3.0	15.12.2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead. Of area 3 sq. metres and below.	Each	10	414.55	4,145.50
4.0	15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	10	744.60	7,446.00
5.0	15.6	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.	cum	10	219.35	2,193.50
6.0	15.23.2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles above 25mm and upto 40 mm	SQM	10	93.40	934.00
7.0	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	SQM	50	45.05	2,252.50
		Sub Total (A)				38,405.80
		Civil Renovation				
8.0	NDSR	Providing and laying in position protective layer of 6 mm thk. HDPE cellular foam sheet on existing flooring including a separation layer of plastic/Paper in between, mixing, pouring & maintaining the same till completion of respective work, removing and cleaning the same after completion of work, disposal of debris outside the premises etc. complete	sqm	40	205.59	8,223.60
9.0	5.2.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4	10,185.05	40,740.20
10.0	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor fourth level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources. (Without extra re-carriage charge for unseen obstruction).	cum	5	10,719.30	53,596.50
11.0	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification [Rate per 50Kg Cement]	per bag of cement of 50 kg	10	57.15	571.50
12.0	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform. Suspended floors, roofs, landings, balconies and access platform.	sqm	20	766.55	15,331.00
13.0	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform. Suspended floors, roofs, landings, balconies and access platform. Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	30	608.35	18,250.50

13.0	13.1.1	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	sqm	200	294.85	58,970.00
15.0	NDSR	Special treatment- Shrinkage controlled, polymer modified, fibre reinforced cementitious repair mortar, specifically designed for spraying (25 kg bag)	bag	12	506.00	6,072.00
16.0	NDSR	Special treatment- Plasticised expanding grout admixture for cementitious grouts where a reduced water/cement ratio and positive expansions are required (225gm packet)	packet	20	92.00	1,840.00
17.0	NDSR	Special treatment- General purpose, non-shrink, cementitious micro-concrete elements to repair particularly reinforced concrete where access is restricted and where vibration of the placed material is difficult or impossible. It is suitable for various structural strengthening measures such as encasement build-ups, jacketing, piletop encapsulation resin system, etc (20 Kg bag)	bag	5	477.25	2,386.25
18.0	NDSR	Special treatment- High performance two component elastomeric cementitious damp-proof coating , suitable for application on concrete, brick wall and plastered surface both positive & negative side.	kg	20	230.00	4,600.00
19.0	NDSR	Special treatment- Single component liquid that removes rust and prevents further rusting of steel structures by providing a passivating coat, Removes rust, Prevents further rusting by providing a passivating coat, To be applied with brush, cotton waste swab or spray gun on the affected metal surface	kg	11	717.60	7,893.60
20.0	NDSR	Special treatment- Synthetic rubber emulsion which when added to cement slurry/ cement mortar/concrete/grout provides good adhesion and water resistance. It requires to be in the form of a milky liquid. It should be fully soluble in water and is to be added directly to the gauging water of mortar/concrete/ cementitious grout that improves elasticity, flexibility, tensile strength of cement and reduces cracking, Makes the mortar waterproof and reduces susceptibility to acids and gases, salt petre action etc.	kg	11	575.00	6,325.00
21.0	11.3.7	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	sqm	40	935.60	37,424.00
22.0	8.2.2.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite stone slab colour black, Cherry/Ruby red Area of slab upto 0.50 sqm	sqm	4	4,679.35	18,717.40

23.0	NDSR	Casement Window: (uPVC) Technical specifications are as follow- Colour - Pristine White, Hinge type - Easy Clean, Glass type - Double glass, noise insulated, toughened (4 mm + 15 mm gap+5 mm), Sash measurement- 65 mm, Handle colour - white, Frame measurement - 65 mm and 2 mm reinforcement, Handle type - Espag Handle., Designing (providing shop drawing and obtaining Client's approval before execution), Supplying, Fabricating & Installing UPVC windows fixing in position over the granite stoned sill, finished plastered painted surface to be done by vender & company. UPVC should be of premium variety and approved for lead free standard. The extrusion process must be quality controlled and of the appropriate standards relating to impact strength, technical performance and consistency. The internal drainage shall be isolated from chambers into which reinforcements can be placed or through which frame fixing pass. Drainage shall be either through the base or alternatively to the face, concealed by face drainage caps. The moving parts of the Windows must have sufficient strength and robustness to withstand accidental Static and Dynamic loads in use, without any permanent deflection or breakage. The overall evaluation will be based on the experience from use and subject to approval by ERPC. Weather seals shall consist of double sealing Systems. Seals on the sash and the frame shall be continuous length and for outward opening windows the seal on the sash shall be joined to a 50mm length of pressure relief seal at the bottom of the opening whereas the seal on the frame shall be joined on the top of opening. Weather seals and pressure relief seals, which shall be obtained from the profile Systems supplier, shall be capable of removal without disturbing the glazing Systems or removal of the frame or sash. Glazing beads shall be of the one foot snap in design and shall be extruded UPVC at the corners. All glazing beads shall be with a co-extruded gasket of a multi-fin design to maintain security and weather performance. Gasket material shall be thermo Plastic Elastomer. All glazing shall be internally beaded. The windows shall be constructed in such a manner that the glazing or deglazing can take place without the removal of the sash or frame. All transoms and mullions shall be fully reinforced, irrespective of size, with corrosion resistant galvanized steel. All other profiles to be reinforced as per the specification of the profile Systems supplier which shall suit the proposed style application relative to exposure, elevation and height above the ground level. Reinforcing shall be secured by suitable screws in accordance with the instructions of the profile Systems supplier. The gap between the structural opening and the UPVC frame shall be between 5 to 10mm all round, which should be filled by injectable PU foam after completion of fixing for best frame and wall bonding, and for sound and thermal insulation and finally applying neutral cure low modules Silicone sealant to make joint water proof. Fixing points shall be to all four sides of a frame, spaced 150mm to 250mm	sqm	4	15,371.44	61,485.76
24.0	13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	100	123.85	12,385.00
25.0	13.8.2	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. Two coats.	sqm	100	121.55	12,155.00
		Sub Total (B)				3,58,743.71
		Laying and Jointing PVC Pipe. Heading				
26.0		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
A.	18.8.1	15 mm nominal dia Pipes	metre	30	441.15	13,234.50
B.	18.8.2	20 mm nominal dia Pipes	metre	10	513.75	5,137.50
C.	18.8.2	25 mm nominal dia Pipes	metre	10	626.05	6,260.50
27.0	18.7.6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 50 mm nominal dia Pipes	metre	50	927.00	46,350.00

28.0	17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	each	4	16,100.40	64,401.60
29.0	17.8	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	each	4	7,004.45	28,017.80
30.0	17.7A	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	each	5	3,459.05	17,295.25
31.0	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	each	4	109.60	438.40
32.0	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	4	1,025.65	4,102.60
33.0	9.105.1	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. 75 mm overall thickness partition with 12.5 mm thick double skin fire rated Glass Reinforced Gypsum (GRG) plaster board conforming to IS: 2095: part 3 (Board with BIS certification marks)	sqm	10	1,797.65	17,976.50
34.0	9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin-charge Extruded section profile size 42x50 mm	metre	50	280.70	14,035.00

35.0	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter)	sqm	20	1,790.65	35,813.00
36.0	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm	each	3	1,817.20	5,451.60
37.0	17.34	Providing and fixing toilet paper holder : C.P. brass	each	4	680.80	2,723.20
38.0	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete	each	4	942.15	3,768.60
39.0	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	4	146.30	585.20
40.0	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	each	4	299.36	1,197.44
41.0	18.49.1	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	each	4	434.20	1,736.80
42.0	18.84	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology. 15 mm nominal bore	each	4	8,050.50	32,202.00
43.0	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.52.1 15 mm nominal bore	each	4	594.75	2,379.00
		Sub Total (C)				3,03,106.49
		Tentative Total				7,00,256.00

BOQ Part 2														
SL. NO.	DSR ITEM NO.	DESCRIPTION	Unit	Total Qty	DSR Rate	Market Rate Basic	GST @ 18%	Sub Total - 1	CPOH @ 15%	Sub Total - 2	Labour Cess @1%	NDSR Rate Composite	DSR Amount	MR Amount
1.0	2.0	3.0	4.0	5.0	6.00	7.00	8.00		9.00	10.00	11.00	12.00	13.00	14.00
	A	Preparatory & Enabling Items												
1.0	NDSR-1	Cordonning off the area for repairs so that unauthorized manmovement is restricted in the area under repairs upto 2.0 mtr height using GI Sheets or steel posts temporarily with all warning signs, maintaining the same till completion of work and removing the same after the completion of activity including cleaning of dust, debris removing to other side of the barricade on daily basis. Complete including all necessary fitting as per specifications /instructions of the consultation.	Rmt	20		115.00	20.70	135.70	20.36	156.06	1.56	157.62	-	3,152.31
2.0	NDSR-2	Supporting the structural element temporarily using heavy duty flat headed steel props of minimum capacity 3 Ton and having height of upto 16' erected vertically in plumb, braced horizontally and diagonally at centre with each others using 40 Nb steel pipes and supporting a continuous 4" x 3" wooden runner just below the structural element, resting on wooden block to support the structure provisionally during repair and jacketing etc. and maintaining them in position till required as directed by the Consultant (mode of measurement per prop per repetition)	Nos	10		150.00	27.00	177.00	26.55	203.55	2.04	205.59	-	2,055.86
3.0	NDSR-3	Providing and erecting at site self supported two legged B class tubular steel scaffolding to reach any place of work on external face as well as internal areas so as to reach elements of building, including proper levelling using basejacks, minimum 1 mtr wide working platform at every 2 mtr level, approaches, extension, stepped MS ladders, so as to reach all levels upto height of 45 mtr or as per site requirement, lifting tackle for men and materials, supporting stubs for scaffolding including anchoring on walls and restoring the same after removal, anchoring, etc. all complete, dismantling and taking away all materials and debris after completion of proposed work etc. at) complete. (Measurement : Elevational area of scaffold erected for every two legs)	SQM	10		225.00	40.50	265.50	39.83	305.33	3.05	308.38	-	3,083.78
4.0	NDSR-4	Providing and laying in position protective layer of 6 mm thk. HDPE cellular foam sheet on existing flooring including a sepration layer of plastic/Paper in beMeen, mixing,pouring & maintaining the same till completion of respective work,removing and cleaning the same after completion of work,disposal of debries outside the premises etc. complete	SQM	10		150.00	27.00	177.00	26.55	203.55	2.04	205.59	-	2,055.86
5.0	DSR-2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge	Cum	20	205.45								4,109.00	4,109.00
6.0	NDSR-5	Providing and erecting triple layered safety net of 75 mm. x 75 mm. x 12 size maximum opening at 1st floor level or one level below working floor area including supporting the same with 40 nb MS pipes as and where required to prevent the debris falling on ground and preiodically cleaning of the fallen debris from net during progress of work and maintaining the same during the entire period of work.	SQM	10		210.00	37.80	247.80	37.17	284.97	2.85	287.82	-	2,878.20
	B	Structural Repairs : Chipping and Dismantling					-	-	-	-	-	-	-	-
7.0	NDSR-6	Carefully chipping ,removing existing internal plaster upto 12 to 15 mm thick by low impact high frequency hammer/clipper without damaging the original sound brickwork or concrete including removal of POP/ Gypsum plaster if any on walls any thickness, racking of joints, daily cleaning and stacking of debris at prescribed location in polypropylene/ paper bags, disposing off the debris so generated on weekly basis out side the premises, etc. complete as directed by Engineer-in-charge. (Note: Scaffolding, debris disposal and enabling items paid separately, extra thickness if any will not be paid additionally)	SQM	100		135.00	24.30	159.30	23.90	183.20	1.83	185.03	-	18,502.70

8.0	NDSR-7	Examining concrete by tapping with light hammer and marking of the loose concrete areas of structural elements in straight line geometrical forms, grooving the edges same with grinder up to 5 mm depth without damaging existing rebars, carefully removing carbonated concrete around the rebars up to 10 mm depth by low impact high frequency hammer/chipper without damaging the sound concrete, as shown in Fig...in detailed methodology, daily cleaning and stacking of debris at prescribed location in polypropylene/ paper bags, disposing off the debris so generated on weekly basis out side the premises, etc. complete as directed by Engineer-in - charge. (Note: Scaffolding and enabling, debris disposal items paid seperately)	SQM	100		240.00	43.20	283.20	42.48	325.68	3.26	328.94	-	32,893.68
9.0	NDSR-8	Dismantling carefully brickwork either in patches or in full as per site requirement by hammer, breakar without damaging the structure including marking and grooving edges if any, removal of plaster/ finishes, cleaning, shifting and stacking debris necessary lead and lift and disposal of debris out side the premises etc. complete as directed by Engineer-in - charge. (Scaffolding and enabling items paid seperately)	CUM	10		2,200.00	396.00	2,596.00	389.40	2,985.40	29.85	3,015.25	-	30,152.54
C		Improving microstructure of Concrete : Grouting					-	-	-	-	-	-	-	-
10.0	NDSR-9	Drilling Holes of 12mm dia, upto 100 mm deep holes in structural members at the intervals of 300 to 500 mm in staggered manner or along the crack as directed by the consultants in RC structural element including Cleaning of the holes by air blower and Inserting 12mm dia. Teflon nozzles compatible with epoxy injector and fiaving machined external end to receive outlet of grouting gun. Fix it inside the holes by applying thixotropic epoxy putty to ensure complete sealing and allow to cure the system for min. 8 hrs before grouting including removing nozzle projections, excess putty if any over concrete element grinding, levelling and finishing the external surface, after completion of the work, etc complete.	Nos	200		75.00	13.50	88.50	13.28	101.78	1.02	102.79	-	20,558.55
11.0	NDSR-10	Grouting Injecting low viscosity high molecular weight thermosett polymer Monopo 250 H by pressure and using pressure epoxy injector with accessories till nozzles refused to accept the grout, Including Mixing material components part a and part b in required quantities as per mfg instruction by weigh batching Filling the grouting gun with monopol 250 H and maintaining desired pressure in the gun, air compressor and at exit (minimum 3 to 4 kg/Cm2) by mechanism to monitor both pressure gauges and controlling the same by release valves and release the grout as per requirement simultaneously to grout the structural element through prefixed nozzles till its refusal Seal the nozzle with thixotropic epoxy putty after the refusal. Note : leakages through other nozzles or cracks are required to be monitored while grouting and such points to be sealed as and when required without any extra cost.	Kg	5		1,000.00	180.00	1,180.00	177.00	1,357.00	13.57	1,370.57	-	6,852.85
12.0	NDSR-11	Injecting readymix nonshrink antiwashout Polymer cement grout (PC GROUT), mixed with addition of 12 to 16 lts of water to 30 Kg of material, plasticizers (approved make) & migratory corrosion inhibitors at 1K by weight of material, Injection of approved /specified grout under low pressure up to 0.50 Kg/cm2 till the grout mix flows out from the nozzle indicating complete filling of grout in the holes including drilling and fixing of nozzles (12 mm dia and 70 mm long) with EPCO1010 putty as directed by Engineer incharge.	Kg	50		90.00	16.20	106.20	15.93	122.13	1.22	123.35	-	6,167.57

13.0	NDSR-12	Gravity pouring / deck flooding over porous slab or concrete area with low viscosity high molecular weight thermosett polymer grout Monopol 250 H to improve the micro structure of concrete, Including mixing material components part a and part b in required quantities as per mfg instruction by weigh batching spreading on area by broom brush at a rate of 1kg/sqm. Monitor leakages through other side of the member and seal them as per the requirement. Broadcast quartz sand over tacky surfaces to ensure mechanical keys for subsequent coating. Allowing the system to cure etc complete. Test the system for pull out at 3 locations	Kg	50		850.00	153.00	1,003.00	150.45	1,153.45	11.53	1,164.98	-	58,249.23
14.0	DSR-4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :												-
a	DSR-4.3.1	Foundations, footings, bases for columns	SQM	30	307.95								9,238.50	9,238.50
b	DSR-4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	SQM	30	669.55								20,086.50	20,086.50
c	DSR-4.3.3	Columns, piers, abutments, pillars, posts and struts	SQM	30	804.25								24,127.50	24,127.50
15.0	DSR-2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	20	253.95								5,079.00	5,079.00
D	Steel Protection: Antl corrosive Treatmet and Corrosion Inhlbltion						-	-	-	-	-	-	-	-
16.0	NDSR-13	Clean existing reinforcement with wire brush/ rotary wire brush to make surface free from rust scales, loose material, dirt etc. complete and providing, applying coats of alkaline rust converting primer confirming to ASTM-B- 117, on the existing rebars and allowing it to react with rust for 6 hrs and form a corrosion resistant, insoluble and adherent protective layer , including cleaning the reinforcement,wire brushing to remove loose rust spalls, with time interval of 1hour between the coats	SQM	60		95.00	17.10	112.10	16.82	128.92	1.29	130.20	-	7,812.25
17.0	NDSR-14	Providing and application full and unbroken coating of anticorrosive protective zinc rich epoxy coating on expose reinforcement in Mo coats with time interval of minimum 1 hours between each coat including mixing of both componants by weight as per mfg specifications, brush application, curing to form a anticorrosive protective coating with high mechanical strength to cementitious repair works, etc complete.	SQM	60		235.00	42.30	277.30	41.60	318.90	3.19	322.08	-	19,325.04
18.0	NDSR-15	Providing and application of hitech concrete penetrating, water based, organic, Bi- polar, calcium nitrite free, migratory corrosion inhibitor on concrete surface having Ph 9.5 which migrates to a virtual extent of LOO mm inside concrete through pores, to inhibit the corrosion process on embedded steel at both anodic and cathodic ends by de passivating the Electro-chemical reaction in that region thereby protecting rebar on al sides.	SQM	60		285.00	51.30	336.30	50.45	386.75	3.87	390.61	-	23,436.75
19.0	NDSR-16	Insertion of sustained release Corrosion inhibiting caplets which protect both anodic & cathodic sites and reduces Corrosion potential Ecorr by minimum 80 mV in conductive medium, by drilling 20 mm holes into the concrete at a depth of 50 mm and inserts to be filled by polymer cement Putty. Spacing of capsules shall be- a) For RCC Columns- 1 Unit/ RMT from two opposite faces in staggered fashion b) For RCC Beams- 1 Unit/RMT from two faces in staggered fashion C) RCC Slab- In 1mx1m grid, four units shall be inserted	Nos	100		210.00	37.80	247.80	37.17	284.97	2.85	287.82	-	28,781.97
E	Provision of additional Rebars						-	-	-	-	-	-	-	-
20.0	NDSR-17	Providing and fixing additional steel rebar Fe41S or higher grade as per required dia in various structural elements like column, beams and Slab etc to replace the lost rebars section due to corrosion including cutting, bending and fixing the bar, tying with preleft bars by GI binding wire, , etc. complete.	Kg	60		85.00	15.30	100.30	15.05	115.35	1.15	116.50	-	6,989.91
21.0	NDSR-18	Providing and fixing of structural steel for strengthening.	Kg	100		110.00	19.80	129.80	19.47	149.27	1.49	150.76	-	15,076.27

22.0	NDSR-19	Providing, Supplying, transporting materials, drilling holes by rotary hammer drill, dust removing, batching, mixing of resin and hardner, inserting & anchoring rebars of specified dia in existing concrete surfaces using resin based anchoring grout and necessary rebaring of reinforcement steel with 10 d depth of drilling (steel rebars to be paid seperately)					-	-	-	-	-	-	-	-
a	NDSR-20	8mm dia rebar in 12 mm dia holes	Nos	10		175.00	31.50	206.50	30.98	237.48	2.37	239.85	-	2,398.50
b	NDSR-21	10 mm dia rebar in 14 mm dia holes	Nos	10		250.00	45.00	295.00	44.25	339.25	3.39	342.64	-	3,426.43
c	NDSR-22	12 mm dia rebar in 16 mm dia holes	Nos	10		300.00	54.00	354.00	53.10	407.10	4.07	411.17	-	4,111.71
	F	Concrete Section Buildup					-	-	-	-	-	-	-	-
23.0	NDSR-23	Providing and applying latex/acrylic cement bond coat on old concrete face (1:1) prior to application of any type of mortar or section buildup using cementitious media to ensure bond between old concrete & new concrete by brush applicatio ⁿ in cleaning of surface, mining of components by weight, application, etc complete Applicator to ensure that cementitious buildup mortar is applied before final setting of bonding medium.	Sqm	60		120.00	21.60	141.60	21.24	162.84	1.63	164.47	-	9,868.10
24.0	NDSR-25	Rebuilding the section of damaged RCC elements to its original size or as per consultants recommandations in thicknesses of 40-100 mm by providing and casting with microconcrete of grade MS0 and above including providing and fixing of watertight foam faced finish shuttering of minimum GB mm th. with supposing framework,all lead lift, mixing, placing, deshuttering, levelling the surface by grinding off cementitious slurry or construction joint differences if any to satisfaction of engg. incharge, curing etc complete.(Rate including- cube test to be conducted for every 5 M.T. workdone.6 no's of sample required per test). Ensure the quality of water by testing water as per IS 456 and document the same. Ensure temperature at time of mixing should be between 25 to 40 degree celcius by electronic temperature gauge	Kg	100		65.00	11.70	76.70	11.51	88.21	0.88	89.09	-	8,908.71
25.0	NDSR-26	Rebuilding the section of damaged RCC elements to its origina size or as per consultants recommandations in thicknesses up to 40 mm in layers of 20 mm each by providing and applying with hand, single component shrinkage compensated thixotropic mortar of grade M40 and above, including all lead lift, mixing by addition of water only as per manufacture's recommendation, levelling the surface, curing etc. complete.(Rate including- cube test to be conducted for every 5 M.T. workdone.6 no's of sample required per test)Ensure the quality of water by testing water as per IS 456 and document the same. Ensure temperature at time of mixing should be between 25 to 40 degree celcius by electronic temperature gauge	Kg	100		62.00	11.16	73.16	10.97	84.13	0.84	84.98	-	8,497.53
26.0	NDSR-27	Rebuilding the section of damaged RCC elements to its original size or as per consultants recommandations in thicknesses up to 40 mm in layers of 20 mm each by providing and applying with hand mix of prepacked cementitious monar z:3 modified at site by adding permeability reducing polymer latex additive having @ 40P< solid content @ rate of 20% by weight of cementitious content at time of mixing with water as per manufacture's recommendation including all lead lift, levelling the surface, curing etc. complete. (cube test to be conducted for every too Sqm. workdone.6 no's of sample required per test)Ensure the quality of water by testing water as per IS 456 and document the same. Ensure temperature at time of mixing should be between 25 to 4C degree celcius by electronic temperature gauge	Sqm	60		1,750.00	315.00	2,065.00	309.75	2,374.75	23.75	2,398.50	-	1,43,909.85

27.0	NDSR-28	Providing and laying prepacked proportioned concrete mix blended with high quality raw materials including well graded fine & coarse aggregates, cement and special concrete admixtures forming M30 grade cement concrete including providing and fixing foam faced finish shuttering with supporting, mixing of water as per manufacturer's specification, plating, vibrating, curing etc. complete. (Rate including- cube test to be conducted for every batch. 6 no's of sample required per test) Ensure the quality of water by testing water as per IS 456 and document the same. Ensure temperature at time of mixing should be between 25 to 40 degree Celsius by electronic temperature gauge	Cum	0.3		34,000.00	6,120.00	40,120.00	6,018.00	46,138.00	461.38	46,599.38	-	13,979.81
	G	FRP COMPOSITE WRAPS & LAMINATED					-	-	-	-	-	-	-	-
28.0	NDSR-29	Measure the surface moisture on concrete surface by moisture meter and ensure that it is below 4%. Conduct the pull out test on surface and ensure that substrate is having minimum strength of 2 Mpa in pull out before starting wrapping activity. Transferring the position of FRP application areas as per drawing on the RCC element and highlighting the same. Clearing the application area of any projections, rounding of corners and edges to 25 mm radius by using vacuum enabled surface grinders and filling honeycomb areas, colds, undulations if any of about 5 mm with epoxy sealant including removing of dust, oily residue, lamination, etc so as to achieve a levelled surface for further FRP system application. Note : application area markings if any diminished during the above process to be reinstated for further process.	Sqm	100		300.00	54.00	354.00	53.10	407.10	4.07	411.17	-	41,117.10
29.0	NDSR-30	Providing and applying the marked application area with surface primer compatible with proposed FRP Wrap system and allowing it to cure as per manufacturer's specification. The fiber sheet is to be trimmed to the required length giving due consideration to end gaps or projections if any as per working drawings and placing the same over a even layer of epoxy adhesive (Saturant) applied over concrete surface and saturating the same, removing of air voids with comping roller, cutting of any loose threads, fiber, if any and applying second coat of saturant over the fabric sheet as per manufacturer's specification, etc complete. (Note- 150 mm end lap along the sheet length and 20 mm wide sheet to sheet lap to be paid extra, measurement per actual fiber sheet area applied and not surface area of concrete surface) Conduct pull out test at minimum 3 locations after wrapping to ensure good bond					-	-	-	-	-	-	-	-
a	NDSR-31	41S GSM Glass J•45° Bi-Directional Angle Layups- Main Beams	Sqm	30		2,200.00	396.00	2,596.00	389.40	2,985.40	29.85	3,015.25	-	90,457.62
b	NDSR-32	600.GSM/Glass Bi-Directional - Slabs	Sqm	0		2,100.00	378.00	2,478.00	371.70	2,849.70	28.50	2,878.20	-	-
c	NDSR-33	900 GSM Bi-Directional -Glass Aramid Hybrid Wrap - columns	Sqm	10		2,450.00	441.00	2,891.00	433.65	3,324.65	33.25	3,357.90	-	33,578.97
30.0	NDSR-34	Providing and applying the marked application area with surface primer compatible with proposed FRP cast in situ laminate system and allowing it to cure as per manufacturer's specification. The Fiber is to be trimmed to the required length giving due consideration to end laps or projections if any as per working drawings and placing the same over a even layer of epoxy adhesive (Saturant) applied over concrete surface and saturating the same to form a continuous 125 mm wide and 1.2 mm thick 1200 GSM carbon laminate, removing of air voids with comping roller, cutting of any loose threads fiber, if any and applying second coat of saturant over the fabric sheet as per manufacturer's specification, etc complete. Note: Single and continuous fiber sheet to be used for application and preparation of cast in situ laminate i.e., lapping not allowed.	Rmt	20		1,100.00	198.00	1,298.00	194.70	1,492.70	14.93	1,507.63	-	30,152.54

31.0	NDSR-35	Establishing exact location of in-situ reinforcement, foundation bolts, insert plates in critical . areas before repairs/ Anchoring/Grouting/ core cutting etc: 1) Conducting adequate Nos. of reinforcement scanning in grid pattern of 600 mm X 600 mm for the columns, beams & Slabs to detect the steel reinforcement/ Foundation bolts/inserts etc in existing RCC elements by using Ground/ Wall penetrating radar system comprising o three antennas for preparation of as built steel reinforcement drawings. The scope o work includes scanning RCC elements on site, preparation & submission of 3 D Images to locate insitu elements. 2) Checking clear concrete cover at all above considered point by cover meter test. (Mode of Measurement: Per point comprising of scanning of element of site max 600 X 600).	Nos	10		2,500.00	450.00	2,950.00	442.50	3,392.50	33.93	3,426.43	-	34,264.25
32.0		Demarking the locations of FRP anchors on the newly wrapped RCC surfaces with proper spacing, drilling 12 mm dia and 75 to 100 mm deep holes, saturating the fixed end of FRP anchor with epoxy resin and inserting anchors inthe holes, spreading and pasting the 8 FRP petals of anchor over the FRP with saturant, finishing, levelling with roller, etc complete.												
a	NDSR-36	Glass fiber Anchor	Nos	50		250.00	45.00	295.00	44.25	339.25	3.39	342.64	-	17,132.13
33.0	NDSR-37	Conducting Pre & Post repair testing of RCC structure by Conducting residual life analysis of RCC structures by measuring rate of corrosion ICor value for the give RCe element by Conducting adequate Nos. of tests for the condition assessment of RCC elements by non electrical connection to rebar type, high precision sensor based wireless testing tool for detail coyosion evaluation which will provide insitu details of (1) Measurement of corrosion rate in Reinforcement, (2) Measurement of Real insit\ Electrical resistivity of Concrete, (3) Measurement of accurate insitu Corrosion potentia of Rebar, (4) Clear cover of Concrete, (5) Residual Life analysis can done, (6) Rate of loss of cross section of steel rebars inside concrete, (7) Contours of corrosion potential in RC: Element. (Mode of Measurement: Per point comprising of mapping of size max 1000 X 1000)	Nos	5		2,500.00	450.00	2,950.00	442.50	3,392.50	33.93	3,426.43	-	17,132.13
H		WATER PROOFING												
34.0	NDSR-38	Mariseal 250 with reinforcing fabric. The cracks in the RCC to be opened and filled with suitable sealant Mariseal 250. The entire surface to be applied Mariseal epoxy Primer The single component polyurethane water proof coating of the Mariseal 250 to be applied on concrete surface as per the specifications in described by the manufacturer along with a layer of Mariseal Fabric sandwiched in beMeen two coats.	Sqm	50		2,000.00	360.00	2,360.00	354.00	2,714.00	27.14	2,741.14	-	1,37,057.00
		TOTAL					-		-	-	-	-	-	9,46,658.15

*****END*****