

L.D.A.H. Rajkiya Engineering College, Mainpuri

Agra Road Kharra, Mainpuri, (U.P.) – 205119
Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow
AICTE Approved Government Engineering College
Phone :- 05672-241241 Mob. 7081066665



College Code 840

एल०डी०ए०एच० राजकीय इंजीनियरिंग कॉलेज, मैनपुरी

आगरा रोड, खर्रा, मैनपुरी (उ०प्र०) – 205119
डा० ए०पी०जे० अब्दुल कलाम प्राविधिक विश्वविद्यालय, लखनऊ से संबद्ध
अखिल भारतीय तकनीकी शिक्षा परिषद् द्वारा मान्यता प्राप्त
Email:- director.gecm@gmail.com

पत्रांक: B77/नि०का०/आर०ई०सी०/मैनपुरी/2026

दिनांक 07/03/2026

NOTICE FOR EMPANELMENT OF CONSULTANTS

LDAH Rajkiya Engineering College, Mainpuri invites applications from qualified and experienced consultants/agencies for empanelment to undertake Structural Audit, Testing and Technical Consultancy services for buildings located in the AOR of Chief Engineer Delhi Zone under the MoU executed between LDAH Rajkiya Engineering College, Mainpuri and MES GE (West) Delhi.

The terms and conditions shall be as follows:

1. A copy of the MoU executed between the Institute and MES GE (West) Delhi is enclosed with this notice. The entire Scope of Work, conditions and responsibilities mentioned in the MoU shall be equally applicable to the empanelled consultants.
2. The consultant/agency seeking empanelment must possess adequate experience in similar works such as Structural Audit, Material Testing, NDT and related technical assessment works.
3. The eligibility criteria mentioned in the MoU shall also be applicable to the consultants seeking empanelment.
4. The empanelled consultant shall carry out all necessary site inspections, testing and technical assessments as per the provisions of the MoU and submit a detailed technical report to undersigned
5. Before final submission of the report, the work carried out by the consultant shall be verified through site inspection by the Institute.
6. The payment to the consultant shall not exceed 20% of ₹190 per sq. m. applicable for such works as mentioned in MOU
7. The empanelment shall remain valid for future works of similar nature received under the MoU, and work orders shall be issued to the empanelled consultants as and when required.
8. Interested and eligible consultants/agencies may submit their applications along with experience details, technical credentials and relevant documents within the stipulated time to the Institute.
9. Empanelment of a consultant does not guarantee allocation of work. Assignment of work shall be made by the Institution based on requirement, availability of consultants, and administrative decision.
10. Validity of Empanelment: The empanelment of consultants shall remain valid only up to the validity period of the MoU executed between LDAH Rajkiya Engineering College, Mainpuri and MES GE (West) Delhi, unless terminated earlier by the Institute.
11. Process of Empanelment: The process of empanelment shall include scrutiny of applications, evaluation of credentials and a negotiation meeting with the eligible consultants before finalization of the empanelment.
12. Documents Required: Interested applicants shall submit the following documents along with their application:
 - a) Firm profile
 - b) Details of similar works completed
 - c) Details of technical staff
 - d) Copies of work completion certificates
 - e) GST registration certificate
 - f) PAN card copy
 - g) Financial turnover certificates
 - h) Any other relevant supporting documents
13. Submission of Application / Quotation : The empanelment applications/quotations shall be sent by post or submitted by hand in a sealed envelope to the Store Office, LDAH Rajkiya Engineering College, Mainpuri on or before 16 March 2026 up to 2:00 PM.
14. The empanelment applications/quotations shall be opened on 16 March 2026 at 04:00 PM. After scrutiny, the list of eligible consultants shall be uploaded on the Institute website on the same day for participation in the negotiation meeting prior to finalization of empanelment.

Enclosure: Copy of MoU & Annexure-I

Director
LDAH Rajkiya Engineering College
Mainpuri

Director
L.D.A.H. Rajkiya Engg. College
Mainpuri

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Email:- director.gecm@gmail.com

3. Technical Manpower Available

Name	Qualification	Experience (Years)	Designation

4. Financial Details

Financial Year	Annual Turnover (₹)

5. Rate Quotation

Consultancy Charges = ₹ _____ of ₹190 per sq. m. (Maximum allowed: 20% of ₹190 per sq. m.)

Quoted Percentage: _____

In Words: _____

6. Declaration

I/We hereby declare that the information provided above is true and correct. I/We have read the MoU and Notice for Empanelment and agree to abide by all the terms, conditions and scope of work mentioned therein.

Signature of Authorized Signatory

Name: _____

Designation: _____

Firm Seal: _____

Date: _____

GARRISON ENGINEER (WEST)



दिल्ली छावनी-10
DELHI CANTT-10

MEMORANDUM OF UNDERSTANDING

FOR

STRUCTURAL AUDIT CONSULTANCY
SERVICES FOR VARIOUS BUILDINGS UNDER
THE AOR OF CHIEF ENGINEER DELHI ZONE



GOVERNMENT OF INDIA

MILITARY ENGINEER SERVICES



MEMORANDUM OF UNDERSTANDING

FOR

**STRUCTURAL AUDIT CONSULTANCY SERVICES FOR
VARIOUS BUILDINGS UNDER THE AOR OF CHIEF
ENGINEER DELHI ZONE**

BETWEEN

HQ CE DELHI ZONE

AND

L.D.A.H RAJKIYA ENGINEERING COLLEGE, MAINPURI

MILITARY ENGINEER SERVICES**INDEX PAGE**

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GOVERNMENT OF INDIA
MILITARY ENGINEER SERVICES

MoU

This is a Memorandum of Understanding between **HQ Chief Engineer Delhi Zone, MES under MOD** and **L.D.A.H Rajkiya Engineering College, Mainpuri** for **Structural Audit Consultancy** services for various buildings in the AOR of Chief Engineer Delhi Zone as per detail below:

Name of Proposal	:	Structural Audit Consultancy services for various buildings in the AOR of Chief Engineer Delhi Zone.
Rate of Proposal	:	Rs. 190/sqm of Plinth Area above 2000sqm of Plinth Area.
Period for Service	:	Till the completion of the main construction work in the buildings.

*Rates are exclusive of GST, and GST shall be payable extra as applicable.

BRIEF ABOUT PROJECT

This is a MoU wherein the client will provide the Vintage of building, total plinth area of the building and configuration of building such as – no. of storeys, no. of lift wells (if any), no. of staircase to recommend repair and maintenance of the buildings in the AOR of client either by: -

- (a) Structural Retrofitting, or
- (b) Structural Rehabilitation, or
- (c) Structural Repair

As deemed fit for the building under consideration based on the Structural audit consultancy report.

On commencement of the main work related to the Structural portion, the concerned Contractor is required to use the methods as mentioned in the Structural Audit report to the entire satisfaction of the Structural Consultant and MES. Consultancy agency will check the quality and methodology of the contractor during the execution of the items related to structure and will render the certificate at various stages of the work as follows: -

<u>Ser. No.</u>	<u>Stage</u>	<u>Certificate</u>
1.	At 30% (approx..) completion of the Structural Portion Work	The work carried out is as per the Methodology and Specifications mentioned in Structural Audit Report and to the entire satisfaction of the consultant.
2.	At 60% (approx..) completion of the Structural Portion Work	The work carried out is as per the Methodology and Specifications mentioned in Structural Audit Report and to the entire satisfaction of the consultant.
3.	After completion of the Structural Portion Work	The work has been satisfactorily completed as per the Methodology and Specifications mentioned in Structural Audit Report and to the entire satisfaction of the consultant.

Scope of Work

The structural consultant shall conduct a thorough audit of buildings by conducting all tests given below (but not limited to) as deemed fit by him and submit a detailed audit report clearly mentioning type and location of repairs required with approximate Bill of Quantities (As per appendix – "B").

<u>S.No.</u>	<u>Test To Be Conducted</u>
1.00	<p><u>Visual inspection and photography: -</u></p> <p>Performing a visual survey of the whole building viz. RCC columns, RCC beams, RCC walls, RCC slabs, and brickwork, etc. recording/mapping on drawing to assess extent of spalled concrete, cracked concrete, honey combing, reinforcement corrosion, delaminated concrete etc., taking photographs and videos to collect evidence of damage to structure and providing the same in CDs/DVDs for record complete all as specified and directed by Engr-in-charge.</p>
2.00	<p><u>Ultrasonic Pulse Velocity Test: -</u></p> <p>Quality Assessment of concrete in selected RCC members using Ultrasonic pulse velocity test in accordance with IS:516 Part-5:2018 SECTION-1 by portable ultrasonic non-destructive digital test equipment including chipping out plaster at strategic locations complete all as specified and directed by Engr-in-charge.</p>
3.00	<p><u>Rebound Hammer Test: -</u></p> <p>Rebound hammer test: - Rebound hammer test in accordance with IS:516 Part-5:2018 SECTION 4 by portable rebound hammer equipment at strategic locations such as RCC / Brick masonry members of the structure complete all as specified and directed by Engr-in-charge.</p>
4.00	<p><u>Half-Cell Potential Test: -</u></p> <p>Half-cell potential test of uncoated reinforcement steel for RCC structure in accordance with IS:516 Part-5:2018 SECTION 2 half-cell potential to assess the probability of corrosion of reinforcement at strategic locations complete all as specified and directed by Engr-in-charge.</p>
5.00	<p><u>Carbonation Test: -</u></p> <p>Carbonation test for RCC structure in accordance with IS:516 Part-5:2018 SECTION 3 carbonation test to measure extent of carbonation from the concrete surface at strategic locations complete all as specified and directed by Engr-in-charge.</p>
6.00	<p><u>Electrical Resistivity: -</u></p> <p>Electrical Resistivity of surface concrete in few randomly selected safely accessible RCC Columns/ RCC Beams/ RCC Slabs using resistivity</p>

	meter by Wenner Probe Technique
7.00	<p><u>Core test: -</u></p> <p>Determination of equivalent cube compressive strength of concrete in RCC Columns/ RCC Beams/ RCC slabs of the structure using concrete core cutting and compression test for RCC structure in accordance with IS 456-2000 & IS:516 on RCC members. The concrete cores shall be extracted from differently random selected RCC members of 60 mm diameter and length up to 150mm, core filling by specialized epoxy material/micro concrete with bond coat at strategic locations complete all as specified and directed by Engr-in-charge.</p>
8.00	<p><u>Reinforcement mapping: -</u></p> <p>Reinforcement mapping test on RCC members to assess covers, spacing of bars including approximate diameter at strategic locations using Ferro Scanning Technique complete all as specified and directed by Engr-in-charge.</p>
9.00	<p><u>Chemical Analysis: -</u></p> <p>Chemical tests for RCC structure in accordance with IS 456 2000 using ready-made kits and reagents.</p> <p>Sample collected will be from half-cell/carbonation powder.</p> <p>Determination of PH value.</p> <p>(i) Determination of water-soluble sulphates contents.</p> <p>(ii) Determination of water-soluble chlorides contents.</p> <p>at strategic locations complete all as specified and directed by Engr-in-charge.</p>
10.00	<p><u>Compressive Strength of Bricks: -</u></p> <p>Compressive Strength of few bricks taken randomly from sill level, lintel level and terrace level.</p>

General Terms and Conditions of the MoU

1. Visits And Inspections

- (a) For commencement of audit consultancy service for a building or a group of buildings a work order will be placed by the concerned Garrison Engineer of the AOR clearly bringing out the total amount of consultancy fees and time of commencement and submission of detailed audit report as per Appendix-A.
- (b) The consultant shall visit site to carry out structural audit immediately after placement of work order and submit detailed audit report within **one month** of work order.
- (c) The Structural audit consultant will inspect the work on following stages during execution of main work: -
 - (i) **At 30% completion of the Structural Portion Work.**
 - (ii) **At 60% completion of the Structural Portion Work.**
 - (iii) **After completion of the Structural Portion Work.**

And will issue the certificate after each visit stating that "The work carried out is as per the Methodology and Specifications mentioned in Structural Audit Report and to his entire satisfaction." Further, the inspection is to be planned in such a way that the pre-requisite formalities such as testing of material and approval of resource plan for material and labor is carried out well in advance so that work may be progressed as per milestones fixed in the agreement.

- (d) The inspection will be conducted along with the concerned Garrison Engineer of the AOR and the contractor.
- (e) Notwithstanding the above the consultant may visit the site of work as and when the same is considered important for the work by consultant.

2. Responsibilities For Accuracy of Structural Audit Consultancy Services: -

The Structural audit consultancy shall be responsible for accuracy of service provided by them. For the work, the advice and/or opinion if any, provided shall be with documentary proof of standards/laws/codes etc., however, decision for execution of work will be of the Engineer in Charge and no claim of any kind of Structural audit consultancy will be entertained.

3. **Payment Modalities:** -

Payment for the consultancy fees to be done to Structural audit consultancy shall be as follows: -

- (i) 80% of the total consultancy fees will be paid at the time of submission of Detailed Structural Audit Report.
- (ii) Balance 20% of the total Consultancy fees shall be paid after the satisfactory completion of the Main work by the contractor and submission of necessary certificates at all stages as mentioned in para 1 (c) above.

Note:- This MoU shall remain valid for a period of 11 months from the date of signing.

The total consultancy fee as mentioned in MoU shall include-

- (i) No. of tests as deemed fit by the consultant.
- (ii) All travelling expenses.
- (iii) All site visits including preliminary visit as mentioned in para 1 above.
- (iv) Lodging and fooding charges.
- (v) Submission of detailed structural audit report.

4. **Structural audit consultancy Personnel Matters and General Conditions for Agreement/ MoU.**

- (a) The Structural Audit shall be carried out by qualified personnel from the concerned Engineering College or an agency authorized by them. It shall be carried out for all services related to Structural works.
- (b) **Date of start of Consultancy services.** The agency shall begin to carry out the services from 5th day from the date of placing of work order as mentioned in para 1(a) above.
- (c) **Date of Completion.** The services of consultancy shall be required up to the actual completion of work i.e. the services of consultancy will be coterminous with the project construction work, for which the agency has been fixed. Thus, in case the execution of the project work continues beyond its stipulated date(s) of completion, the consultancy services will be provided in extended period of project work also. No extra payment on this account shall be payable to Consultancy. However detailed structural audit report must be submitted within **one month** of placing work order as per para 1(b) above.
- (d) **Notices.** Any notice, request or consent required or permitted to given or made pursuant to conclusion of contract shall be in writing. Any such notice request or consent shall be deemed to have been

given or made when delivered in person to an authorized representative of the party to whom the communication is addressed or when sent by registered mail, to such party.

(e) **Modification.** Modification of the terms and conditions of the consultancy including and modifications of the scope of the services, may only be made by written agreement between the parties, however each party shall give due consideration to any proposals for modification made by the other party.

(f) **Settlement of Disputes & Arbitration.** Except where otherwise provided in the consultancy services, all questions and disputes relating to the matters under the agreement or these conditions or otherwise concern in the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned conditions: -

(i) If the consultant considers any work demanded of them to be outside the requirements of the contract, or disputes any record or decision given in writing by the MES or the authorized representatives on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable, he shall promptly **within 15 days request the Chief Engineer Delhi Zone** in writing for redressed of the dispute and CEDZ shall, thereupon, give his decision within 30 days of the receipt of such request which shall be final and binding.

(g) **Force Majeure.**

(i) For the purposes of this contract, "Force Majeure" means an event which is beyond the reasonable control of a party and which makes parties performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the party invoking Force Majeure to prevent), confiscation or any other action by government agencies.

(ii) Force Majeure shall not include any event which is caused by the negligence or intentional action of a party or such party's agents or employees, nor any event which a diligent party could reasonably have been expected to both [A] take into account at the time of the conclusion of this contract and [B] avoid or overcome in the carrying out its obligations hereunder.

(iii) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

(h) **No Breach of Contract.** The failure of a party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this contract in so far as such inability arises from an event of Force Majeure, provided that the party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this contract.

(j) **Measures to be taken.**

(i) A party affected by an event of Force Majeure shall take all reasonable measures to remove such party's inability to fulfill its obligations hereunder with minimum of delay.

(ii) A party affected by an event of Force Majeure shall notify the other party of such event as soon as possible and in any event not later than fourteen (14) days following the occurrence of such event providing evidence of the nature and cause of such event and shall similarly give notice of the restoration of normal conditions as soon possible. The parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

(k) **Suspension.** Further, the Garrison Engineer may by written notice of suspension to the Structural audit consultancy services, suspend all payments to the consultancy hereunder if the consultancy fail to perform any of their obligations under this contract, including the carrying out of the services provided that such notice of suspension (i) shall specify the nature of the failure and (ii) request the consultancy to remedy such failure within the period not exceeding thirty (30) days after the issue of such notice of suspension.

(l) **Termination of Contract.** The Garrison Engineer by issuing Thirty (30) day's written notice to the consultant may terminate the contract. Such notice may be given on occurrence of the events as specified in the conditions of contract.

(m) **Payment upon Termination.** Upon termination of this Contract pursuant to Contract Condition, the Engineer-in-Charge shall make only due proportionate payments to the consultancy after offsetting any amount that may be due from the Consultancy to the MES.

5. **Obligations of the Structural audit consultancy**

5.1 General.

5.1.1 Standard of Performance. The Consultancy shall perform the services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and consider appropriate advanced technology and safe and effective equipment, machinery, materials and methods. The consultancy shall always act, in respect of any matter relating to this Contract or to the Services, and shall at all times support and safeguard the MES's legitimate interests in any dealings with third parties.

5.1.2 Conflict of Interests. Structural audit consultancy and its affiliates, if any, not to engage in certain activities involving any type of conflict of interest.

5.1.3 Confidentiality. The consultancy and the personnel of either of them shall not, disclose any proprietary or confidential information relating to the project, the services, this services, this contract or the MES's business or operations without the prior written consent of the Department.

5.1.4 Changes in the Applicable Law. If after the date of this contract, there is any change in the Applicable Law with the respect to taxes and duties which increase or decrease the cost or reimbursable expenses incurred by the consultancy in performing the services then the remuneration and reimbursable expenses otherwise payable to the consultancy under this Contract shall be increased or decreased accordingly by agreement between the parties hereto.

5.2. Fairness and Good Faith. The parties undertake to act in good faith with respect to each other's rights under this contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

5.3. Action for Deficiency in Services /Consultant liability towards the Client. Structural audit consultancy agency shall be liable to indemnify the Client for any direct loss or damage accrued or likely to accrue due to deficiency in service rendered by them which shall include any or all cost and expenses incurred by the Client in removing the deficiency in Service including engaging any other consultancy agency.

Appendix 'A'**WORK ORDER FORMAT**

Name of Structural audit consultancy:		
1.0	Name of Work	
1.1	(a) Building No.	
	(b) Location of Building	
	(c) Total Plinth Area	
	(d) Vintage	
1.2	Total Cost of this work order	
1.3	Date of Commencement of service	
1.4	Date of Submission of Detailed Structural Audit Report.	
1.5	(a) Sub-Division and name of Assistant Garrison Engineer (I)/ Assistant Engineer	
	(b) Division and name of Garrison Engineer	
	(c) CWE and Name of Commander Works Engineer	
	(d) Zone Chief Engineer and name of CE / CCE	

Appendix 'B'**STRUCTURAL AUDIT REPORT**

Name of Structural Audit Consultancy:		
1.0	Particulars Of Work	
1.1	(A) Name Of Work	
	(B) Objective Of Work	
	(C) Scope Of Work	
1.2	Investigation Carried Out by The Consultant	
1.3	Visual Observations Report	
1.4	NDT Test Result Report	
1.5	Building Drawings	
1.6	Recommended Methodology of Repair	
1.7	Result And Discussion	
1.8	Conclusion	
1.9	Estimated Bill of Quantities with Item Unit Rate	
1.10	List Relevant Standards Followed	