

**Part-I**

**KAMALA NEHRU COLLEGE**

**AUGUST KRANTI MARG**

**NEW DELHI**

**Tender For**

Appointment of Structural Consultant for structural condition assessment, seismic analysis, supervising repair and retrofitting works, to further allow construction of proposed temporary structure in MS frame at terrace level, and suggest rehabilitation to good condition of Library Building at Kamala Nehru College, New Delhi. (Including structural design for proposed lift shaft and ramped bridges to connect Library Building to existing Academic block.)

And

For structural condition assessment of Auditorium building including balcony slab, roof structure, and roofing material.

**Part I (Techno-Commercial Bid)**

**Name of Consultant:**

**Address:-**

<b>Start Date of Submission of Tender</b>	<b>30.01.2023</b>
<b>Date of opening of Part – I</b>	<b>16.02.2023</b>

### Schedule of Bid

Tender	Appointment Of Structural Consultant
Issue of tender document	30.01.2023
Date of Pre-bid Meeting	11.02.2023
Date from which bidding starts	30.01.2023
Last date for submission of Bids	16.02.2023
Date and time of opening Part-I (Techno-commercial Bids)	17.02.2023 AT 11.AM
Address for submission of Bids	PRINCIPAL KAMALA NEHRU COLLEGE (UNIVERSITY OF DELHI) AUGUST KRANTI MARG, NEW DELHI - 110049
Address for Communication	KAMALA NEHRU COLLEGE (UNIVERSITY OF DELHI) AUGUST KRANTI MARG, NEW DELHI - 110049
Date and time of opening of Part-II (Price Bids) of tender	18.02.2023 AT 11.AM
Validity period of the bid	180 DAYS

\* Kamala Nehru College reserves the right to change the dates mentioned in this document

#The consultant should submit 2 separate envelopes duly sealed with clearly super scribing content of envelope, name of work and name of participant as mentioned below :

1. Part – I (Techno Commercial Bid)
2. Part - II (Price Bid)

It is also advised to not to mention tendered amount/quoted amount in Part-I of the Tender Document or on any envelope.



## Section I

### Form of application for Appointment of Structural Consultant

Place:

Date:

The Principal  
Kamala Nehru College,  
August Kranti Marg,  
New Delhi,

Dear Madam,

Having read and examined the Notice Inviting tender, scope of work, instructions to bidders and the terms and conditions, specified in memorandum, hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the application including quotation for Structural Consultant towards analysis, repairs and retrofitting and all other contents in the tender document. I / We hereby offer to execute the works specified in the said memorandum within the time specified and at the rates mentioned in the attached 'Schedule of Rates' and in accordance in all respects with the General Terms and Conditions, Terms of Reference and instructions in writing referred to in Articles of Agreement.

#### MEMORANDUM

(a)	Name of the work	<p>Appointment of Structural Consultant for structural condition assessment, seismic analysis, supervising repair and retrofitting works, to further allow construction of proposed temporary structure in MS frame at terrace level, and suggest rehabilitation to good condition of Library Building at Kamala Nehru College, New Delhi. (Including structural design for proposed lift shaft and ramped bridges to connect Library Building to existing Academic block.)</p> <p style="text-align: center;"><b>And</b></p> <p>For structural condition assessment of Auditorium building including balcony slab, roof structure, and roofing material.</p>
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(b)	Date of Commencement	
(c)	Time for completion of the work	<p>A For submission of report detailing existing condition assessment, and design proposal elaborating repairs, retrofitting and rehabilitation.</p> <p>B Mutually decided timeline to assess and approve the design based on quantum of repairs and retrofitting after discussion between college and consultant.</p> <p>C For final BOQ with suggested rates, specifications, conditions, and drawings to allow appointment of contractor.</p> <p>D Mutually decided timeline to award work to contractor.</p> <p>E Supervision and approval of the construction by the consultant within the agreed upon time frame of construction between college and contractor.</p>

**I / We agree to**

iii) **Should the quotation be accepted, I / we hereby agree to abide by and fulfil the terms and provisions of the said conditions of the contract annexed here so far as they may be applicable.**

iv) **Our Bankers are: (Full Address)**

(i)	
(ii)	

**3. Names of Partners of our firm are:**

(i)	
(ii)	

Name of the Partner of the firm Authorized to sign	
Or	
Name of Person having power of Attorney to sign the Contract (Certified copy of the Power of Attorney should be attached).	

Yours faithfully,

Signature of Consultant:

Signature, Name and Addresses of Witnesses:

**01.**

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**02.**

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## **Section II**

### **Section- A**

#### **General Information: Property details**

#### **Main Office Building and its Annexe Building:**

Name and address of the Property:	Library and Auditorium Building, Kamala Nehru College, August Kranti Marg, New Delhi
Nature of structure:	Framed RCC
Year of construction:	1972
Age in years:	50
No. of buildings in	Two
No. of storeys	Ground floor + First floor + Second floor, and terrace
Built-up area	30000 sft
Occupancy status	The buildings are occupied.

#### **II. Scope of work and Services to be rendered by Structural Consultant for Library Building are mentioned hereunder in detail**

1. Structural Consultant should visit the site and carry out a visual inspection of the structure. Original design/construction drawings (if available or to the extent available) and occupancy pattern, Visual inspection and Maintenance report, etc. will be made available by the college for reference. He may review the available data, drawings, etc. to analyses whether any major change in type of occupancy and/or loading has taken place / is expected to take place. He should study previous NDT reports for its sufficiency and suggest additional tests if required. Inspection of the site before submission of offer and inclusion of any other point which may be considered relevant is allowed. On basis of above, inferences from tests carried out, evaluation of strength of materials as per NDT report, Consultant should carry out a Design Verification check and Seismic Analysis as encapsulated below under Sr. No. 2 a) and 2 b).

#### **2a) Design verification of Library Building**

Structural Consultant should carry out a theoretical design check to verify member adequacy considering the existing level of loading from wherever a major change in occupancy is observed such as where stored items or heavy equipment is/are located, intermediate

partition walls are added, all as a departure from the original planning. In this regard, Consultant while carrying out design check of buildings should note following points:

- i. Codes to be referred for evaluation should be the latest authorized issues.
- ii. Responsibility of providing all original design/construction drawings (if available or to the extent available) and occupancy pattern – original and revised, rests with the college.
- iii. The Consultant should take cognizance of the provisions of IS 15988 and IS 1893 (latest revision) for evaluation of such type of buildings (Category 1).
- iv. Any deficiency in beam-column joint quality and detailing as well as foundation system (including piles) need elaborate treatment and the Consultant should address these in his design checks and remedial measures.
- v. Preferably standard structural analysis software's such as STAAD, STRAP, SAP, ETABS etc. should be used to analyses and check adequacy of existing members' sizes and reinforcement detailing. This should be done for all possible load conditions including earthquake load.
- vi. While undertaking such an analysis, special attention should be given to ascertain effect of localized heavy loading from equipment and other static loads being present only in a few bays. The results of such an analysis could indicate deficiencies in reinforcement detailing.
- vii. If damping pads are not provided under vibratory equipment then a dynamic analysis should be undertaken.
- viii. Results of analysis to be presented in tabular form showing design forces and moments for all slabs, beams and columns of the building where there is an increase in the design forces and moments by more than 10% compared to the forces and moments that would prevail if there were no change in usage pattern.

## **2 b) Seismic Analysis**

Development of analytical/numerical model for the seismic analysis based on the visual observation and drawings (if available or to the extent available), taking cognizance of the provisions of various relevant IS codes (latest revision) i.e. IS 1893, IS 456, IS 875, etc. as applicable and applying Dead Loads, Live Loads and Imposed Loads, Wind or Earthquake load with various load combinations, for the detailed seismic assessment of various structural elements of the building.

Due consideration must be taken in seismic analysis and suitable measures may be suggested to increase both stiffness and strength. Further, detailed results of the seismic analysis before and after introducing any proposed seismic retrofitting scheme at global and local level along with justification for adopting the seismic retrofitting scheme should be duly incorporated.

**3 a)** Based on, visual observations by Consultant on his own, report of visual and maintenance inspection prepared by the College, inferences from the NDT tests carried out, Design Verification carried out and Seismic Analysis, and also keeping regard of the proposed temporary MS structure on the terrace, the Consultant should enlist the elements needing repairs, rehabilitation, retrofitting and suggest best possible scheme and furnish the college with a comprehensive Condition Assessment report along with a design proposal. This will further lead to Measurement sheets for the work required to be carried out and Bill of Quantities (BOQ) with workable market rates and specifications with sketches, drawings etc.

**3 b)** The defects observed should be classified as per CPWD handbook (Tables 3.2 and 3.3) on Repair and Rehabilitation of RCC buildings published by Director General (Works) CPWD.



**3 c)** Consultant should undertake a techno-economic study before arriving at a suitable retrofitting measure. For major repair/restoration work the Consultant needs to justify the costs of retrofitting/restoration measures proposed duly considering the expected life after repairs and the cost of a new building.

**3 d)** Preparing repair, rehabilitation and retrofitting scheme (including seismic retrofitting, if required) with cost estimate/BOQ and visual observation report. Finalize the repair, rehabilitation and retrofitting scheme (including seismic retrofitting scheme, if required) incorporating the comments from Architect and management.

**3 e)** Please note:

i. Measures required based on the condition assessment report and with respect to design check requirements have to be implemented.

ii. Measures required for seismic retrofitting of the structures shall be given separately to facilitate the College with an option to carry out such works based on its feasibility.

iii. Reasonableness aspects may be considered while quoting your rates.

iv. Final report should contain, among other things

a) Detailed Visual observation report

b) Non-Destructive Testing Report conducted if any.

c) Inferences from tests carried out

d) Evaluation of strength of materials in-situ.

e) Design checks and related calculations with summary

f) List of elements needing repairs, rehabilitation, retrofitting with categorization as mentioned above.

g) Seismic retrofitting scheme if necessary,

h) Repair, rehabilitation and retrofitting scheme for the entire list of structures in scope.

i) Measurement sheets for the required work of repairs/retrofitting, seismic retrofitting to be carried out, Bill of quantities with workable market rates, CPWD rate analysis and specifications with sketches, drawings, timeline for work execution etc.

j) Issue of Structural Stability Certificate (Section 12 Annex IV)

**4.** Final scheme shall incorporate structural design for proposed Lift shaft and ramped bridge to connect existing Academic block to Library Building as per architect's drawings.

**5.** Final BOQ with suggested rates, specifications, specific conditions, final drawings, and suggestions regarding prequalification, to allow appointment of contractor. - **2 weeks**

**6.** Supervision and approval of the construction by the contractor within the agreed upon time frame of construction between college and contractor. (Section-B)

**Place**

**Signature of Consultant**

**Date: -**

**with their Seal**



## **Section- B**

### **Site Supervision of Retrofitting Scheme and its Certification by Structural Consultant.**

It is necessary that the Consultant undertakes the responsibility for site supervision as work activities involved in retrofitting are of a specialized nature requiring the knowledge and experience of similar work. Being the consultant for the supervision for the repair and retrofitting works, following course of duties shall be undertaken by the Structural Consultant

1. Remedial measures such as repairs/retrofitting, seismic retrofitting with cost estimate/BOQ/timeline (as per scope of work under Section-A) suggested/submitted by the consultant will be considered by College by preparing tenders and obtaining competitive bid through empaneled/eligible firms. Necessary additions/alteration /modifications in BOQ /draft tender if any, may be incorporated by the consultant in this regard.
2. The consultant may carry out periodic site supervision of such remedial/retrofitting measure as detailed and subsequent certification as per standard format of structural stability certificate as per Annexure –I.
3. Quality plan

Before placing of work order to the contractor, the consultant shall submit a Quality Plan to the College's Engineer covering all the details required for the efficient and smooth supervision of the work to be carried out. It shall be covering following responsibilities (but not restricted to) to be undertaken by the consultant.

- a) Roles and responsibilities.
- b) Performa of the Check list on material inspection
- c) Consumption monitoring
- d) Performa of Checklist on work procedures
- e) Testing of materials plan.

4. Minimum scope of work to be undertaken by the consultant during the supervision. The consultant shall undertake following responsibilities, but not limited to, during the course of repair and retrofitting works for ensuring achievement of the target as envisaged under the scope of the work

a	Minimum Dedicated Technical Staff	The Consultant shall nominate dedicated technical staff, who are required to be committed for the consultancy work. Minimum number of dedicated staffs required and their qualification required are as follows.	
		Engineer with Structural Engineering (Masters) and 10 years' experience with 5 years in rehabilitation work)	1no.
		Engineer with Degree /Diploma in Civil Engineering and 5 years' experience in rehabilitation	1no.
	i	Frequency of the visit, Roles and responsibility of the dedicated staffs can be indicated in the Quality Plan, in a mutually acceptable manner, enabling the efficient discharge of contractual responsibility of the consultant encapsulated under this contract.	

b	Check list on material inspection	Proper record of materials, especially the construction chemicals, received on site for retrofitting work needs to be to be maintained by the Contractor and checked by the Consultant with reference to the specifications prepared for the work. Necessary formats shall be got approved by the College's Engineer	
		i	Following aspects need to be checked/covered by the consultant:
			i. Compliance to brand specified/ accepted as equivalent.
			ii. Quantities,
			iii. Batch numbers,
			iv. Manufacturing dates shelf life etc.

c	Consumption monitoring:	The consumption of various materials used for retrofitting needs to be maintained by contractor and checked by the Consultant with reference to the specifications prepared for the work. The desired consumptions of materials per unit of measurement of work should be established before starting the work. This shall be based on the specifications (such as mix proportion for repair mortars or number of coats for protective coating etc.) and manufacturer's data sheets	
		Following aspects need to be recorded.	
		i. Material inward,	
		ii. Consumption,	

		iii. Balance materials	
		iv. Daily turnout of various activities in terms of unit of payment as per BOQ,	
		v. Correlating consumption and turnout.	

d	Checklist on work procedures:	The specification laid down for the work states various steps, which are required to be undertaken for each of the retrofitting item. It is necessary to check at every stage whether all previous steps, which are prerequisite to the step under consideration, are properly carried out. A checklist is therefore necessary to be maintained by contractor and checked by the Consultant.	
		i	Various aspects in the checklist are as follows:
			i. Surface preparation quality check.
			ii. Intermediate inspection after every step in repair rehabilitation.
			iii. Reinforcement checking in case of jacketing or new concrete.

e	Site tests:		<p>As a part of quality control, tests are required to be carried out on repair mortars, micro- concrete etc. These would be required as per guidelines given in the specifications (type of test, frequency of test and required values of test results).</p> <p>The tests can be conducted at site if the facilities are available. Alternately, the samples should be cast and cured at site as per specifications and then samples should be sent to test laboratories.</p>
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f	Maintaining documentary records and visual records:	Documentary records and visual records of all activities are required to be maintained at site by the Consultant. For which necessary temporary storage facility has to be arranged by the consultant.	
		i	These shall include
			i. Photographs before, during repair and after completion of retrofitting. These should be taken at every step for all major retrofit members and areas.
			ii. Areas taken up for repairs, average depth of repairs for section make up.



		iii. Updated and checklists maintained at site.	
		iv. Registers shall be updated by the consultant and kept under custody of the consultant. Necessary initials required from Colleges Engineer shall be obtained.	

g	Certification of work executed:		Consultant should issue Structural Stability Certificate for site supervision of work. The certification of work executed is to be done by the Consultant ensuring that:
		i	The work has been done as per original specification in contract documents for the work and approved additions, alterations etc. in it during the course of work
		ii	Specified materials have been used in requisite quantities as per specifications
		iii	Testing has been done and results of test for materials and final products (such as PMM and Micro concrete etc.) are as per laid down specifications.
		iv	Quantities executed are as per daily registers maintained and jointly signed.

**Note:-**

i) The consultant should go through all the above points, understand the scope of work thoroughly and while quoting the price bid should consider scale of fees for consultation and periodic supervision of retrofitting work separately.

ii) Remedial measures (as per cost estimate/BOQ/timeline) suggested by the consultant will be taken through College's empanelled body by obtaining competitive bid. The consultant may carry out periodic site supervision of such remedial/retrofitting measure as detailed and subsequent certification as per standard format of structural stability certificate as per Annexure -I.

**Place**

**Signature of Consultant**

**Date: -**

**with their Seal**



### Section III

#### General Rules and Instructions to the bidders

1

#### Pre-qualification

- 1 The Consultant/ Consulting Firm shall have minimum prior experience of 10 years in condition assessment, evaluation, repair, rehabilitation and retrofitting consultancy.
- 2 The Consultant / Consulting firm shall have at least 1 Structural Engineer (Masters) and with minimum experience of 10 years (out of which minimum 5 years should be in rehabilitation/ retrofitting work).
- 3 In addition, the consulting firm should have minimum 2 personnel with Degree/ diploma in structural engineering and minimum 5 years of experience in rehabilitation work. They should also have the experience in devising the repair scheme, estimating costs, drafting specifications, preparation of necessary documents and drawings, supervising the work being executed including certification.

a	Minimum Dedicated Technical Staff	The Consultant shall nominate dedicated technical staff, who are required to be committed for this consultancy work. Minimum number of dedicated staffs required and their qualification required are as follows.	
		Engineer with Structural Engineering and 10 years' experience with 5 years in rehabilitation work)	1no.
		Engineer with Degree /Diploma in Civil Engineering and 5 years' experience in rehabilitation	1no.
	i	Frequency of the visit, Roles and responsibility of the dedicated staffs can be indicated in the Quality Plan, in a mutually acceptable manner, enabling the efficient discharge of contractual responsibility of the consultant encapsulated under this contract.	

- 4 The consulting firm should have prior experience and capability of undertaking seismic retrofitting of RC buildings with reanalysis of as built structures (using necessary software) using the guidelines of IITGSDMA and/ or IS 15988 and any other relevant codes.
- 5 The selected Consultant should have adequate number of qualified engineers, supervisors, technicians. Minimum number of dedicated technical staff required to be committed for the consultancy project under consideration should be as follows: -.
 

Bidder shall submit to the employer, list and details of qualified personnel nominated for the supervision of the work. Necessary approval from the college's Engineer shall be obtained in prior in this regard.

Consultant shall update the details sought in para 1,2,3 in form 1A,1B and 1C

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### Bids in Two bid system

For the appointment of Consultant for the project, a two-stage bidding process will be followed. The response to the present tender should be submitted in two parts, i.e., the Techno-commercial bid and Price-bid (in hard copies). The bidder will have to submit the "Techno-commercial bid" and the "Price Bid" separately but within the stipulated date and time. The "Techno-commercial Bid" will contain the exhaustive and comprehensive technical details, whereas the "Price Bid" will contain the pricing information. The Techno-commercial Bid shall NOT contain any pricing information at all and if the Techno-commercial Bid contains any price related information, then that Techno-commercial Bid would be disqualified and would not be processed further.

In the first stage, only the "Techno-commercial Bids" will be opened and evaluated for suitability. Those bidders who qualify PQ, the Price Bids of only those bidders, (which have been short-listed /qualified by technical evaluation) will only be opened.

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### Documents Comprising Tender/ Bid

#### Part 1

Techno-Commercial Bid

##### i Form of Tender/Bid

##### ii Duly Filled-in and signed tender document consisting of:

a Entire Tender Document

b All formats towards pre-qualification/eligibility criteria etc annexed hereto duly filled in along with relevant documents

c Schedule of quantities

#### Part 2

Part Bid

Bill of Quantities, duly filled-in.

4

### Late Bids

No bid will be received after the due date/last date and time specified for submission of bids in schedule or after the extended Bid due date, if any.

5

### Opening of Bids

Duly filled tender Part I, prequalification criteria, technical details, literature etc., called Part I of the tender, will be opened on the time and date, as specified in Schedule, at his office, by the tender inviting authority, as specified in Schedule or his authorized representative in the presence of authorized representatives of the bidders who choose to be present.

Duly filled-in tender-Part II, of those bidders, who are found qualified after scrutiny of Part I of the tender documents and prequalification criteria, only will be opened on the time and date, as specified in Schedule, at his office, by the tender inviting authority, as specified in Schedule in presence of the authorized representatives of the qualified bidders.

The consultant should submit two separate envelopes duly sealed with clearly super scribing content of envelope, name of work and name of participant as mentioned below:

1. Part – I (Techno Commercial Bid)
2. Part - II (Price Bid)

It is also advised to not to mention tendered amount/quoted amount in Part-I of the Tender Document or on any envelope.

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#### **Bid Validity**

Tenders shall remain open to acceptance by the college for a period as specified in Schedule from the date of opening of the Part-I of the tender which period may be extended by agreement and the bidder shall not cancel or withdraw the tender during this period.

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#### **Clarification & Evaluation of Bids**

The college would subsequently examine and evaluate bids as below:

- i Only those tenders, which meet the minimum prequalification criteria set out in this tender, shall be processed further. After verification of the correctness/legality and adequacy of the information and supporting documents furnished and considering the financial standing, business integrity, record of timely completion of works, quality of work executed, etc. and Price Bids of only those Bidders who are technically qualified as per part I of tender shall be opened.
- ii The price bids of unqualified bidders will not be opened, and communication will be sent in this regard.
- iii Rates quoted for each item shall be considered during verification/ scrutiny.
- iv If the rates written in figures and in words do not tally, then the rates quoted by the contractor in words shall be taken as correct.
- v Where the rates quoted by the consultant in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will be taken as correct and the amount will be worked out accordingly.



- vi To assist in the examination, evaluation and comparison of the bid, college may ask Bidders individually for clarifications. The request for clarification and the response shall be in writing. No change in the price or substance of the Bid shall be sought, offered or permitted except as required to during the evaluation of Bids in accordance with tender clauses.
- vii In the case of any tender where unit rate of any item/items appears unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
- viii In case the lowest tendered amount (worked out based on quoted rate of Individual items) of two or more bidders is same, then such lowest bidders may be asked to submit a revised offer quoting percentage discount on their already quoted tendered amount which shall be applicable on all tender items except buy-back amount. The lowest tender shall be decided based on revised offer. Further, if any such lowest bidder does not revise his bid on lower side, his original bid shall remain valid for further processing.
- ix If the revised tendered amount (worked out based on quoted rate of individual items) of two or more bidders received in revised offer is again found to be equal, then the college shall decide future course of action which shall be final and binding on all the bidders.

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### **Acceptance of Tender and Award of Work**

On receipt of intimation from the college of the acceptance of his/their tender, the successful bidder shall be bound to implement the contract and within fourteen days from the date of issue of work order thereof, the successful bidder shall sign an agreement in accordance with the draft articles of agreement. Further, the written acceptance by the Reserve college of India of a tender will constitute a binding contract between the Reserve college of India and the person so tendering, whether such formal agreement is or is not executed subsequently.

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### **Taxes/ Duties/ Levies**

Price bid shall be inclusive of GST or any other Govt. taxes. College will not entertain any claim whatsoever in respect of the same.

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### **Time for Completion of Work**

Time allowed for carrying out the work as mentioned in the para 5 of the scope of the work, shall be strictly observed by the CONSULTANT and it shall be reckoned from the 14th day from the date of the written work order.



**Employer's right to accept or reject any or all the bids**

Notwithstanding anything mentioned above, college reserves the right to accept or reject any Bid at any time prior to award of Contract without thereby incurring any liability to the affected Bidder or Bidders. The Employer shall not assign any reason for rejection of any or all Bids.

**Limit of Payment for handling scope of work**

Section- A – Till Finalization of design requirement		
Stage	Stages of services to be rendered	Scale (cumulative)
i)	Acknowledgement of award of work and Execution of agreement	10% of total fees payable as per section A
ii)	Submission of detailed reports of design check and seismic analysis	50% of total fees payable as per section A
iii)	Submitting the repair, rehabilitation and retrofitting scheme with its Cost estimate, BOQ, timeline schedule for work execution, detailed drawing and specifications.	75 % of total fees payable as per section A
iv)	Final Compliance of College Officials and Representatives.	100 % of total fees payable as per section A
Section – B – During supervision of the repair and rehabilitation works		
i.	On finalization draft tender by Bank with necessary incorporations suggested by consultant, if any.	20% of the Total fees payable as per Section B.
ii.	After award of work to a retrofitting contractor and execution of contract documents for various works	40% of the Total fees payable as per Section B less payment made under various clauses
iii.	On completion of 20% work	50% of the Total fees payable as per Section B
iv.	On completion of 40% work	60% of the Total fees payable as per Section B
v.	On completion of 60% work	70% of the Total fees payable as per Section B
vi.	On completion of 80% work	80% of the Total fees payable as per Section B
vii.	On completion of 100% work or On issuing of Virtual completion certificate.	85% of the Total fees payable as per Section B
viii.	On submission of structural stability certificate in approved format	100% of the Total fees payable as per Section B

Schedule and Bill of Quantities				
Sr no.	Description	Qty	Rate	Amount
	<b>Section A</b>			
1	<p>Design verification of College Library building</p> <p>Carrying out design verification including site visits, Submission of detailed reports of design check, submitting the repair, rehabilitation and retrofitting scheme with its Cost estimate/BOQ, timeline estimation for work execution, as per detailed/General information, terms/conditions mentioned under Part-I and scope of works as detailed under Section A ( Under section-II) of part-I.</p> <p>Final BOQs with approved rates, approved brands and material, specifications, specific conditions, and drawings to allow appointment of contractor and then execution.</p>	1 job		
2	<p>Design verification of College Auditorium building</p> <p>Carrying out design verification including site visits, Submission of detailed reports of design check, submitting the repair, rehabilitation and retrofitting scheme with its Cost estimate/BOQ, timeline estimation for work execution, as per detailed/General information, terms/conditions mentioned under Part-I and scope of works as detailed under Section A ( Under section-II) of part-I.</p> <p>Final BOQs with approved rates, approved brands and material, specifications, specific conditions, and drawings to allow appointment of contractor and then execution.</p>	1 job		
3	Structural Design of Lift shaft and ramped bridge walkways as per Architect layout design	1 job		
	<b>Total Amount of Section – A</b>			
	<b>Section B</b>			
4	Scheduled Site Supervision of the Retrofitting Scheme for Auditorium & Library Building works and its lift shaft and bridge walkways and its formal Structural Certification as per detailed/General information, terms/conditions mentioned under Part-I and scope of works as detailed under Section B ( under section-II) of part-I.	1 job		
	<b>Total Amount of Section – B</b>			
	<b>Total Quoted amount for scope of work as per Section A &amp; section B (Inclusive of GST)</b>			

**Place**

**Signature of Consultant (With Seal)**

**Date**

**E-mail**

**Contact No.**