सिद्धिमूलं प्रबन्धनम्
भा. प्र. सं. इन्दौर
IIM INDORE

भारतीय प्रबंध संस्थान इंदौर

INDIAN INSTITUTE OF MANAGEMENT INDORE

प्रबंध शिखर, राउ पीथमपुर रोड़, इंदौर - 453556 (म. प्र.) भारत

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इ-टेंडर नोटिस न. **E-Tender Notice No. IIMI/Estate/20/2024/227 File No.516**

REQUEST FOR PROPOSAL

FOR

"PROVIDING ARCHITECTURAL CONSULTANCY SERVICE FOR THE WORK OF DESIGNING, LAYOUT AND DETAILED ESTIMATE OF NEW SECURITY OFFICE, MEDICAL CENTRE AND NEW TRANSPORT OFFICE AT IIM INDORE"

11/3/25

Tender Inviting Authority

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CHAPTER 1

Invitation to RFP
&
Instruction to Bidders

CHAPTER 1

Invitation to RFP & Instruction to Bidders

Director, Indian Institute of Management, Indore invites online bids in two bid system (i.e. Technical bid & Financial bid) from the eligible registered Architectural entities for Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore. Details are as follows:

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A.1 Information Related to Bid

A. 1.1	NIT No.: **IIMI/Estate/20/2024/227 File No. 516**	
A. 1.2	Name of Work	**"Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore."**
A. 1.3	Indicative cost of project	**Rs. 7.18 Crore (Approx.)**
A. 1.4	Bid Processing Fee (Rs.)	Nil
A. 1.5	Contract period	**03 Months**
A. 1.6	Compensation for delay	**@ 0.25% of awarded cost, per day of delay of each Sevices as mentioned in schedule of payment, subject to the maximum of 10 % of awarded value.**
A. 1.7	Mode of submission of Bid	**On-Line mode only**
A. 1.8	Bid Security	**12,500/- (Which will be returned after the selection process is over)**

A.2 Key Events and Dates

A.2.1	Publishing Date on CPP Portal	**12.03.2025**
A.2.2	Document Download Start Date	**12.03.2025**

A.2.3	Pre-Bid Meeting	**03:00 PM** on **18.03.2025** at Conference Hall, Administration Block, IIM Indore.
A.2.4	Uploading of clarifications on queries	By **21.03.2025 on IIM Indore website**
A.2.5	Last date and time of submission of tender	Upto **03:00 PM** on **26.03.2025**
A.2.6	Date & Time of online opening of technical bid	**03:30 PM** on **27.03.2025**

A.3 Other Important Information Related to Bid

A.3.1	Security Deposit	5% of awarded value to be recovered from running bills of Architectural service fee. Alternatively, Bank Guarantee (BG) in the prescribed format of the Institute OR fixed deposit receipts from a scheduled bank to be payable at Indore may be submitted. And it must be valid up to date of completion of the EPC Tender formulation contract or as per the requirement of the job/tender conditions and shall be refunded after 6 months of completion of work/issue of completion certificate.
A.3.2	Performance Guarantee	5% of awarded value on acceptance of bid. The performance guarantee may be submitted in the form of bank guarantee OR demand draft OR fixed deposit receipt from a scheduled bank which shall be refunded after 60 days of completion of work/issue of completion certificate whichever is later or as per the requirement of the job/tender conditions.
A.3.3	Mode of payment of	Bidders will have to deposit the Bid Processing Fee and Bid Security through NEFT or RTGS only. Other instruments are not accepted on

	Bid Processing & Bid Security	this account. Bank Details for the same are as below: Name of beneficiary : Indian Institute of Management Indore Address : Rau-Pithampur Road, Indore-453556, M.P. **Account No.** **53018623445** Name of the Bank :State Bank of India Address of the bank :IIM Indore Campus IFSC Code :SBIN0030525 GST No. :23AAAJI0057R1Z3 Bidders will have to upload scanned copy of Payment details towards cost of Bid processing fee & Bid Security during the submission of tender and the same will be accepted only on verification & confirmation by the Institute. Any delay in credit will not be entertained by the Institute. In absence of these instruments the bids will summarily be rejected.
A.3.4	Method of Selection	**Quality and Cost Based Selection.**
A.3.5	Bid Validity	90 Days from the date of submission of Bid

B. Guidelines for E-Tendering

B.1 General **Information and bid submission**

Online bids from amongst eligible registered Architectural entities are invited under two bids system for Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore.

The registered Architectural entities having experience in providing services for a similar project during the last 07 years ending previous day of last date of submission of tender are requested to participate in the tendering process.
A similar project here means "Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore." For EPC tender

- Security Office
- Medical Centre
- New Transport office

Eligibility of bidding agencies shall be evaluated on the basis of their overall past performance, experience of similar projects, Presentation, document submission and their qualification & experience. The Bidders are requested to submit correct information and give documentary evidence as asked in the tender document in support of their eligibility.

B.2 It is mandatory for all the applicants to have class II or III digital signature certification from licensed certifying agency like NIC, MTNL, e-mudra, TCS, safescrypt, GNFC etc.

B.3 Detailed NIT can be viewed free of cost on IIM Indore website under the URL http://www.iimidr.ac.in/tenders/. Financial bid form can be downloaded only from https://eprocure.gov.in/eprocure/app. Uploading of tender will be possible only after making payment of Bid Processing Fee and Bid Security.

B.4 The tender shall be submitted online on or before the due date and time as mentioned in NIT.

B.5 The applicant have to upload the details of e-payment of bid processing fee & bid security before the last date & time and download the tender document from the e-tendering portal https://eprocure.gov.in/eprocure/app.

B.6 Tenderer are advised to upload their documents well in time to avoid last minute rush on the server or complication in uploading. IIM Indore will not be responsible for any type of problem in uploading the documents.

B.7 Online bid documents submitted by intending bidders shall be opened only of thosebidders, who have deposited Bid Processing Fee, Bid Security and other documentsas per the requirement of NIT.

B.8 Information and Instructions for bidders posted on website shall form part of bid document.

B.9 The bid document consisting of set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website https://eprocure.gov.in/eprocure/app free of cost.

B.10 Those bidders not registered on the website mentioned above, are required to get registered beforehand. If needed the intending bidders may get acquainted with the process online from the www.eprocure.gov.in site itself.

B.11 On opening date, the bidder can login and see the bid opening process.

B.12 Bidder can upload documents in the form of JPG format and PDF format.

B.13 The price bid format is provided and the rates offered should be entered in

theallotted space only and uploaded after filling the relevant columns. The Price Bid/BOQ template must not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for this tender.

B.14 Bidder must ensure to quote their fees in % (percentage) of preliminary estimated cost as indicated.

B.15 The technical bid (stage-1) will be opened online first on due date and time, as mentioned above. The time and date of opening of Technical bid (stage-2) and financial bid of bidders qualifying the technical bid (stage-1) & financial bid respectively will be uploaded on CPPP.

B.16 Completed Tenders containing technical bid and price bid will be received ONLINE only on CPP Portal website https://eprocure.gov.in/eprocure/app at the fixed time and date indicated in the NIT.

B.17 If there are any clarifications, this may be obtained online through the tender site, or through the contact details. Bidder should take into account the corrigendum published before submitting the bids online.

B.18 It is construed that the bidder has read all the terms and conditions before submitting their offer. Bidder should go through the tender schedules carefully andupload the documents as asked; otherwise, the bid will be rejected.

B.19 The bidder has to digitally sign and upload the required bid documents one by one as indicated. Bidders to note that the very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that theyhave read all sections and pages of the bid document including General conditions of contract without any exception and have understood the entire document and are clear about the requirements of the tender.

B.20 The bidders are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The TIA will not be responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour. Tenderers are advised to upload their documents well in time to
avoid last minute rush on the server. Request for postpone time will not be entertained.

B.21 The time settings fixed in the server side & displayed at the top of the tender site,will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.

B.22 The maximum size of file to be uploaded during submission of tender through online mode will be governed by the CPP Portal provisions.

C. Other Information and terms & conditions

C.1 Time schedule

Time for completion of aforesaid jobs will be 3 months from the date of issue of workorder. The contract will remain valid for 3 Months or actual date of handing over/completion of work whichever is later. The basic consideration and the essence of the contract shall be adherence to the time schedule for performing the Architectural services for aforesaid job.

C.2 Technical Bid

The Technical Bid submitted by the bidder should duly consider the requirements as per NIT.

C.3 List of Documents for Technical Bid to be uploaded on CPP portal

I. Technical Bid Stage-1:

The following documents should be duly self attested and scanned copies uploaded on CPP portal on or before the due date mentioned in NIT:

i. Letter of transmittal (form-01)
ii. Technical bid (NIT duly signed and sealed to be uploaded)
iii. E-payment details towards cost of bid processing fee & bid security.
iv. Annual financial payment received on account of Architectural Services during the three financial years 2021-22, 2022-23, 2023-24 duly certified by a practicing Chartered Accountant
v. Completion certificate(s) for similar Architectural Services completed during last seven years wherein value & stipulated & actual date of completion should be mentioned, has to be uploaded for this purpose. Certificates of Work Experience/Completion Certificates issued by authorized signatory. (Sample/indicative format attached)
vi. Certificate(s) in respect of LEED/GRIHA certified projects.
vii. PAN (Permanent Account Number)
viii. Income Tax Return for three financial years 2021-22, 2022-23, 2023-24.
ix. GST (Goods & Services Tax) Registration Certificate
x. EPF/ESI registration certificates
xi. Authorisation letter of officer(s) who is uploading the tender & who will be signing agreement / making communication etc.
xii. Undertaking on the letter head having gone through and its acceptance for the

NIT terms & conditions and corrigendum (if any).

xiii. Integrity Agreement (as prescribed in the tender should duly be signed and sealed by the authorised signatory and uploaded. However, the actual execution of agreement on non-judicial stamp paper of requisite value will be done immediately after furnishing of performance guarantee).

xiv. Bank details for refund of bid security (format attached)

xv. Any other document that bidder felt necessary in support of his candidature.

II. **Technical Bid (Stage-2)** (Presentation) -All those Bidders, who qualify in Technical Bid (Stage-I) will have to make a presentation before the IIMI as per the details / heading explained in clause-4 of chapter-4 especially for Project, as briefed in the tender doc. The copy of presentation to be uploaded on the CPP portal while submission of bid.

The following documents should be duly attested and scanned copies uploaded on CPP portal on or before the due date mentioned in NIT:

i. Copy of presentation proposed to be made before IIMI (time limit - within 30-45 min.; language - Hindi/English)

ii. Submission of documents & drawings as explained in Chapter 4 vide para 4.1 & 4.2.

iii. Organizational setup of the firm (highlighting Architectural Services job management and team)

III. Financial Bid

The Architectural Services Fee shall be for the total Scope of works as detailed in the NIT. The Bidders are required to quote a percentage (%) of total Indicative cost of Project.

I. The Tax & levies shall be paid/deducted as mentioned in clause no.29 under Chapter 7 (Other Conditions).

II. The price shall remain firm during the pendency of the contract.

C.4 Signature of Bidder

The bid must contain the name and place of business of the Bidder. Significant evidence of authority of the person signing on behalf of the Bidder shall be furnished with the bid. All the pages of this document must be initialed/signed and submitted to IIM Indore within the stipulated date of submission of bids.

C.5 Validity

The offer shall remain valid for a period of 90 Days from the date of submission of

Bid.

C.6 The bid submitted shall become invalid if:

I. The Bidder is found ineligible.
II. The bidder does not submit the bid processing fee and bid security.
III. The Bidder does not upload all the documents as stipulated in the NIT.
IV. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid.
V. If the bid founds irresponsive at any stage of evaluation.

C.7 IIM Indore reserves the right to reject any bid(s) or all bids without assigning any reason at any stage.

C.8 IIM Indore also reserves the right to restrict the list of qualified bidders to any number deemed fit by shortlisting the bids with higher marks in order of merit.

C.9 Any discrepancy, error, ambiguity in the RFP and its contents must be brought to the notice of the Estate department, IIM Indore in writing through e-mail to estatecivil@iimidr.ac.in or in pre-bid meeting. No communication in this regard will be entertained after the pre-bid meeting.

C.10 No individual response shall be given to any of the communication. Clarification if any will be notified on the institute website after the date of pre-bidmeeting.

C.11 Request for change of date or terms and conditions will not be entertained

C.12 All provisions in this document are supplementary and complementary to each other and are not to be read in isolation.

C.13 IF ANY INFORMATION FURNISHED by the applicant is found to be incorrect at a later stage, they shall be liable to be debarred from tendering/ taking up works in IIM INDORE.

C.14 Short listing of the agencies shall be subject to thorough verification of their credentials and inspection of works carried out by them, through a Technical Evaluation committee of experts, constituted by IIM Indore, if required.

C.15 IIM Indore does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

C.16 Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the Architects who resort to canvassing will

be liable for rejection.

C.17 The bid for the works shall remain open for acceptance for a period of 90 Days from the date of submission of Bid. If any bidders withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the IIM Indore shall, without prejudice to any other right or remedy, be at liberty to forfeit 100% of the said bid security as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.

C.18 This notice inviting Bid shall form a part of the Architect contract document. The successful bidders, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

- The Notice Inviting Bid, all the documents including additional conditions, specifications, General Conditions of Contract and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- Any other Standard C.P.W.D. Form / other forms as applicable/mentioned.

C.19 For any queries regarding e-tendering process, the bidders are requested to contact as provided in the tender document. Parallely for any further queries, the bidders are asked to contact over phone: 0120-4200462, 0120- 4001002, 91-8826246593 or send a mail over to cppp-nic@nic.in

C.20 The specifications, Terms & Conditions, other regulations which are not herein mentioned will be guided by relevant CPWD guidelines, manual, specifications / BIS / IS/ Other Central Govt. norms to the extent applicable for IIM Indore & the decision in this regard will be guided by the decision of the respective authority of IIM Indore which shall be final and binding to the Architect.

C.21 In the event of acceptance of a tender, the documents submitted by the successful bidder shall be verified with the originals before the award of work.

CHAPTER 2

BRIEF DETAIL & OBJECTIVE OF THE WORK

CHAPTER 2

Brief Detail and Objective of the Work

Project

Under the expansion plan, it is envisioned to build Hospital Building (Medical Centre), Transportation Building, Security Building etc.

The tentative area schedule is as follows: -

S. no.	Institute Activities	Indicative Area (may be as per standard by designer)(in sq. ft)	Area in Sqm
A	**New Transport office :-**		
1	Staff Bus Parking with Shade (10 nos)	12000	1114.81
2	Car Parking with Shade (10 nos)	2000	185.80
3	Electric Golf Cart Parking with Shade (10 spaces)	1200	111.48
4	Workshop	1800	167.22
5	Office Room for Two Staff Members	144	13.38
6	Lady Staff waiting Area (for 5 people)	180	16.72
7	Driver Waiting Hall (for 20 drivers)	600	55.74
8	Office Room for Transport-in-charge	180	16.72
9	Two-wheeler parking for staff: Around	600	55.74
10	Washroom (Both Ladies & Gents Separate)	200	18.58
	Total Area of Transport Office:-	**18904**	**1756.19**
B	**Medical Centre**		
1	**Ground Floor: -** **a. Available space at ground floor for expansion -420 sqmt.**	4522	420.00
2	Emergency complex as below recommended		

3	Emergency room with separate entrance connected with main building		
4	Duty Doctor Room		
5	Dressing room / Minor OT		
6	Emergency complex have attached Toilet for Male, female		
7	Sample collection Room / Lab Diagnostics		
8	X-ray Room		
9	Waiting Area		
10	At the Centre Nursing Station with Examination area		
11	4 OPD rooms with Attached toilets And Wash Basin		
12	Pharmacy		
13	Physiotherapy Area with toilet.		
14	Observation Room with 2 bedded facility		
15	Staircase / lift Ramp		
	Total Area: -	**4522**	**420.00**
B.1	**First Floor upon existing building**		
16	2 OPD for Dietitian/consultant and 1 OPD for psychologist with Attached toilets And Wash Basin	200	18.58
17	Dental OPD	300	27.87
18	Medical Storeroom	150	13.94
19	General Storage	300	27.87
20	HK area/Laundry area	50	4.65
21	Nursing Station	200	18.58
22	Two Washroom:- (Ladies & Gents)	80	7.43
23	2 general wards For Male or female with capacity of 6 patient with attached toilet	1200	111.48
24	Nurse Rest room With Attached toilet	100	9.29
25	lift	50	4.65
26	Common Toilet	180	16.72

27	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	200	18.58
	Total Area:-	3010	279.63
B.2	**Second Floor upon existing building**		
28	Meeting Room /Conference room /Teaching room	300	27.87
29	Kitchen Area With slab, washing Facility and dining Area	150	13.94
30	Washroom Common.	100	9.29
31	Ward -01 for isolation with Attached washroom	150	13.94
32	Nursing Area in centre.	100	9.29
	Total Area: -	800	74.32
	Total area of Medical Centre:-	8332	774.05
C	**Security Office:-**		
1	Office for Security advisor	200	18.58
2	Office for security-In-charge	200	18.58
3	Office for Lady GDA/Supervisor	180	16.72
4	One office space to accommodate 3-4 employees with working desk.	400	37.16
5	Two male /female washrooms.	200	18.58
6	One hall to be used as a centralised command centre, should be internally connected as well as separate entry exit also.	450	41.81
7	One storeroom	200	18.58
8	Waiting area	300	27.87
	Total Area of Security Office:-	2130	197.88
	Total Area in Sqm.		**2728.12**
D	**Additional**		
1	VRV/VRF AC System (HP) (Location:- Medical Centre)		40

2	Airconditioning system (TR) (Location:- Offices)		30
3	Street Lighting with LED (building area plus circulation area) (Sqm)		3993
4	Emergency light & Illuminated Signages (Sqm)		3993
5	Footpath with PCC base, 60 mm thick paver blocks and kerb stone edging (Sqm)		600
6	External Sewerage (mt)		500
7	peripheral grid 150 mm to 300 mm dia pipes (mt)		800
8	Storm water drains (mt)		1000
9	Horticulture operation including 300 mm earth filling, grassing, tree plantations/ shrubs and potted plants etc. (Sqm)		1200
10	Vertical plantations (Excluding the cost of frame work for vertical gardening) (Sqm)		810
11	Lift		1
12	Cement Concrete pavement with vacuum dewatered concrete		900
13	Solar water heating system (ltr)		4000

A	Institute Activities	Tentative Area
1	Miscellaneous buildings like	
	New Transport office	1756.19
	Medical Office	**420 sqm (proposed at ground floor beside existing building)+ 279.63 sqm (first floor at existing building) + 74.32 sqm (second floor at existing building)= 774.05 sqm**
	Security office	197.88
		2728.12
	Miscellaneous (5%)	136.41
	Total Plinth Area	**2864.53**
2.	Circulation area (35%)	1002.58
	Total Area (A)	3867.11
	Tentative built-up area including circulation area to be created	Say = 3867 Sqm
	Tentative cost of Group-IX Project	Rs. 7.18 Crores (Approx) Excluding GST

CHAPTER 3

Eligibility Criteria, Evaluation and Selection of Architect

CHAPTER 3

Eligibility Criteria, Evaluation and Selection of Architect

1. **Eligibility Criteria:** Prospective bidder should have the following for making oneself eligible for participation in the bidding process -
   a. Should be registered Architectural entities
   b. Should possess the experience in the field of Architectural Services
      - Should have the requisite experience of Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate.

   c. Should be able to qualify as per the requirement of the different stages of evaluation given in the NIT.

2. OVERALL EVALUATION PROCESS & SELECTION OF ARCHITECT

Bidding Process will be a two-bid system which comprises of technical bid and financial bid. Further the technical bid will be subdivided into two stages namely technical bid stage-1 and technical bid stage-2. The ratio of weightages for cost and technical score will be 30:70 (Thirty : Seventy) respectively

The Method of selection will be Quality and Cost Based Selection (QCBS). As specifiedearlier, the Technical bid will be evaluated in two stages. Stage-1will be based on bidder's Profile / credentials / work experience whereas stage - 2 would be based onbidder's vision / approach towards the prospective assignment & the same will be evaluated through the presentation made by bidder before the IIMI.

After that the financial bid will be opened for the qualified bidders of the respectivestage only. The weightage would be as follows.

a. **Technical Bid**

- Stage-1 =10%

- Stage-2 (Presentation) =60%

b. **Financial Bid (i.e. cost)** =30%

The entity scoring the highest marks after final evaluation will be selected as the Architect.

3. TECHNICAL BID (STAGE-1)

3.1 The eligible entity will be shortlisted by IIM Indore based on the marks obtained against the under mentioned parameters

Sl.No.	Criteria		Maximum Marks
i)	Experience of the Projects completed during the last seven years.	For project of value: • job of value ≥ 7.18 crore (single job) : 50marks • job of value ≥ 5.74 crore & < 7.18 crore (single job) : 40marks • job of value ≥ 4.31 crore & < 5.74 crore (Single job) : 30marks Note: Completion certificate where in value at completionshould be mentioned, has to be uploaded for this purpose.Certificates of Work Experience/Completion Certificates issued by authorized signatory.	50
ii)	-do-	Architectural Service undertaken for works of value 8.5 crores and above, having been completed within the specified time during last seven years as per the original stipulated date of completion mentioned in the work order. Note: Completion certificate where in value & stipulated & actual date of completion should be mentioned, has to beuploaded for this purpose. Certificates of Work Experience/Completion Certificates issued by authorized signatory.	10
iii)	Local office	For having local office in Indore, the agency has to provide a local office registration address proof.	10
iv)	Green building/ campus	Achievement of having completed certified buildings- in a campus. (Certification of GRIHA/LEED for relevant category) 1. Platinum Rating (as per LEED) or GRIHA-V (as per Indian standard): 10 marks each 2. Gold Rating (as per LEED) or GRIHA-IV (as per Indian standard): 5 marks each 3. Silver Rating (as per LEED) or GRIHA-III (as per Indian standard): 3 marks each	10
v)	Financial Credential	Annual financial payment received on account of Architectural Service jobs during the three financial years 2021-22, 2022-23, 2023-24. duly certified by a practicing Chartered Accountant. (Marking based on average of above three years) • 05 marks for ≥ 0.14 crore and < 0.22 crore • 10 marks for ≥ 0.22 crore and < 0.29 crore	20

		• 20 marks for ≥ 0.29 crore	
		Total Marks	**100**

3.2 All those who score 70% and above marks in the Evaluation of Technical Bid (stage-1) will be invited for making a presentation before the Committee constituted for the purpose.

4. Technical bid (STAGE-II)

4.1 **The tentative project detail as given in chapter-3 to follow but notlimited to that.** All participating entities are advised to visit the site before submitting their proposal for Architectural services. The prospective bidders are requested to give prior intimation for their site visit on any of the working days during the office hours. Normally the working hours observed in the Institute is 9.00 AM to 05.30 PM & the working days are Monday toFriday. The communication can be made on estatecivil@iimidr.ac.in

4.2 The prospective bidders is required to give **a multi-media presentation** along with Design Proposal. The Bidders shall be required to make presentations of 30 to 45 minutes duration duly supported by computer generated 3D animations, walk through etc. **The Bidders will present their conceptual understanding of the project in the form of a design proposal/ design scheme along with their vision on the planning of a Modern-State of the Art- Green Campus.**

The broad Concept Architecture design and theming should encompass the following

a. Functional Distribution and Activity Pattern

b. Movement and Accessibility

(Universal access for all spaces with special focus on pedestrian network within the campus connecting other existing zones, encouraging walking and cycling. However, the campus shouldhave good connectivity with public transit system through a defined vehicular network and parking facilities)

c. Open-space system

(Integrated landscapes considering ecological processes within and

adjoining the campus boundaries)

d. Built form system

(Clearly articulating the morphological structure throughtypological variations, overall massing and volumetric dispositionof built form within the campus)

e. Services and Infrastructural system

(Efficiently dove-tailed with form and function considering sustainable practices throughout the campus)

The detailed architectural schemes should be able to demonstrate aesthetic appeal, experiential quality, building expression, use of innovative technology, design in terms of sensitivity to location, appropriate materials for construction, seismic factors and response to requirement of space. The final scheme (Urban Design and Architecture) should represent the nature of development envisaged for the proposed campus through relevant drawings, images, sketches, walkthrough etc.

4.3 The bidder will upload on CPPP of following documents for a comprehensive planning & design of the proposed infrastructure but not limited to:

i) A Detailed Report (bound in a soft copy) containing Architect visualization of the project, design proposalincluding features relevant to design scheme with sketches/3-D rendering to explain concepts and innovations, diagram of designed general functional arrangements showing inter-linkage/ distribution of activities at different levels, summary schedule of usable and gross areas expressed in metric system.

ii) Drawings as given below and all the drawings will have a maximum A2 size (594 mm × 420 mm):

- Concept Sheet/s
- **Master/Lay out Plan :** This shall indicate layout of buildings and necessary infrastructure as per IIM INDORErequirements along with corresponding sections.
- **Landscape Plan:**This shall indicate hard and soft areas, outdoor furniture, types of plantation, and other Landscaping element etc. along with corresponding sections.
- Development Controls and Architectural character
- **Perspective / 3D views**
- **Development Controls and Architectural guidelines as part of the overall Report.**

iii) Drawings and Documents for the following:

- Detailing of a part of Building

- Technical details for Building

iv) List of Drawings for each of the above areas:

- Concept Sheet/s
- All Floor Plans
- All Elevations
- Two Sectional Elevations
- Sections (Min 2)
- Perspective / 3D Views
- Energy and Environmental Considerations
- Any other details

Note: The entire Design Proposal shall also be submitted in Pen Drive. All drawings submitted in Pen Drive shall be in '.dwg' format, readable in Auto CAD 2022-23-24 and PDF.

4.4 Marking System for Technical Bid Stage-II

Sl. No.	Category	Description		Maximum Marks	
				Marks	Total
1	Architect's Capability	i.	overview of the Architect's capabilities in handling a project of this nature, specifically the extent to which the Architect can offer value addition to the project	5	35
		ii.	Submission of documents & drawings as explained above i.e. para 4.1 & 4.2	30	
2	Design Scheme	i.	Overall Landscape Plan with integration of open and built spaces and Site Planning: Optimum use and efficiency	10	10
3	Environment and energy strategy	Energy efficiency parameters in terms of:			20
		i.	Range and level of sustainability processes and environmental systems	5	
		ii.	Extent and mode of adoption of green building norms	15	
		Each detailed architectural scheme for will be evaluated for:			
		i.	Aesthetic Appeal, Building expression, Innovative Technology and space utilization keeping in mind future development etc.	10	
		ii.	Response to functional requirement of space while developing floor plan, utility and service plan	10	

4	Architectural Design	iii.	Most cost effective design (substructure and superstructure): to be elaborated as to why his design of substructure, superstructure and services to be considered as most cost effective). Existing soil report for adjacent area shall be made available by IIMI if asked for.	10	35
		iv.	Structural Designing work	5	
Total Marks					**100**

4.5 The presentation by each bidder should be of 30-45 minutes duration. Bidder have to make their own arrangements for making the presentations.

4.6 IIM Indore reserves the right to go for site inspection of the completed works involving Architectural services of the prospective bidder and it may have the bearing on the selection decision. The expenditure in this connection shall be borne by the IIM Indore.

4.7 The weightage of marks scored in the Presentation of (Stage-II) shall contribute 60% towards the final evaluation.

5. Financial Bid

The weightage of marks scored in the financial bid shall contribute 30% towards the final evaluation.

CHAPTER 4

SCOPE OF WORKS

Chapter

Scope of Works

5.1 General Scope of Works

The Architect shall function completely as per the direction as well as specificprinciples & guidelines laid down by IIM Indore. IIM Indore will have the final authorityin all selection and decision processes related to the project. The Architectshall check out complete listing & planning of activities.

The broad scope of work of Architect to the satisfaction of competent authority of IIM Indore includes, but not limited to:

1. Providing Architectural Services as stipulated in the tender document & as per the requirement flagged by IIM Indore authorities in respect of project & or as per the requirement of the site not mentioned herein.

5.2 SCOPE OF SERVICES

Architect will have to prepare a scheme, designs, and footprint layout on an area identified. Architectural services will include but not limited to Architectural, theming, designing, detailing and developing of building services, broadly covering as below for EPC tender:

- Architectural Design & drawings (except R.C.C.structural element design).
- Checking Structural feasibility of extension of medical centre building for two additional floor over existing building. The foundation design shall be provided by the institute.
- Formulating schemes/designs for internal and external services including Civil works, Interior Design, Mechanical works, Electrical works etc. (Internal Electrification, LT,Cabling and Networks, Lifts and Traffic analysis, street lighting etc.),
- Tender documents
- Detailed Estimate with 3 % of additional contingency
- Designing of reinforcements should be taken for future consideration of vertical extension of floors(G+2)
- Water Supply and Plumbing works,
- Drainage,
- Landscaping with horticulture,
- all systems for Information and communication enabled Technology
- Integrated Building Management System (IBMS),
- Data and Tele-Communication Service & Design,
- Solar power design & utilization

- Other development works, etc.

The Architect shall provide Architectural services broadly described above. However, it should be clearly understood that the description of services is only indicative and the Architect shall be required to perform any other services which may be required whether or not expressly mentioned hereinafter for **"Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore for EPC tender"** to the satisfaction of IIM Indore.

Brief scope is as follows:

Scope of Works	Description
Finalization of spaces required	Discussions with IIM, Indore and finalization of project brief including illustrating requirements of IIM Indorewith regards to the entire scope of work that is to be implemented.
Formulation of design concept	Design basis Report, Concept design and drawing details to be prepared by Architect and to be submitted for Review by IIMI & After incorporating the comments, concept to be finalized & based on which approval may be given by IIMI.
Proof checking of structural design of Existing medical centre building for two additional floor.	The foundation drawing shall be provided by the institute.incase of failure of the existing structure to withstand two additional floors, first & 2nd floor may be designed over new proposed building (B-1)beside existing.
Preparation of Detailed Estimate & drawings	Preparation of Detailed Estimate based on detailed drawing based on applicable CPWD DSR 2023 for the Items of DSR and based on Rate Analysis for Non-DSR items. Architect will frame detailed estimate duly supported with takeoff sheets, abstract of cost segment wise, fully developed drawings of building, services layouts of all floors, specification and terms and conditions in conformity with the applicable Central Government regulations/ generally based on provisions of CPWD Manual by following applicable government procedures. Architect shall present a copy of these documents to the IIM Indore for approval. The approval thus conveyed is in principle and not a certificate to the correctness of drawing or detailed estimate or specification or legality.

To ensure if design is satisfying all the norms	With regards to the correctness of the Architectural design, drawings, measurements, estimate and execution process etc., the Architect will be solely responsible for their correctness and technical soundness. Architect shall ensure compliance of all architectural norms, statutory and regulatory norms of their own.
In case of any clarification or further detailing of Architectural design & drawings required during preparation of EPC Tender document	Though the main work of Architect will complete after handing over the deliverable but in case of any further clarification of Architectural design or drawing required during the preparation of EPC Tender doc.

5.3 GREEN BUILDING DESIGN

The Architect shall adhere to highest standards of environment and energy sustainability as stipulated in respective Clause, AnEnvironmental Brief and as approved by IIM Indore. Holistic integration of the environmental sustainability brief in design, materials, construction, services, processes and maintenance concerns should be strictly addressed in planning and design to achieve a Green Campus equivalent to GRIHA 5 Star/ LEED Platinum standards.

5.4 The Architect's role and responsibility will include:

- providing Design / Architectural services in project conceptualization covering space utilization, functional requirements, preparation of LOP, Project cost estimation, Detailed Architecture drawings, The Preliminary project report shall cover all project components. The Architect shall provide Architectural design philosophy and the design methodology etc. for the entire Architectural design scheme of the campus.
- The Architect shall get the approval of the conceptual scheme from IIM INDORE through presentations,(as required by IIMI), computer walk- through etc. Comments and suggestions or alternate proposal of the IIM INDORE shall be evaluated and suitably incorporated till the concept design is accepted and frozen.
- The Architect shall have constant and regular interaction with the IIM INDORE for formulating the design philosophy and parameters, preparation of preliminary estimate, designs/ drawings and specifications.
- The Architect shall ensure that the various building/engineering services are suitably and economically designed without any discrepancies between the structure and finishes, and the requirements of service installation. And it should also be kept in mind that the new construction proposed shall aesthetically gel with the existing construction.
- The Architect shall prepare all the documents required for call of EPC tenders by the IIM Indore for execution of work in suitable packages as required/approved by IIM INDORE. If any corrections / observations are made

by the IIM INDORE, the same shall be complied by the Architect till final approval.

- The Architect shall have to perform in an efficient, orderly and professional manner and shall deploy necessary qualified and skilled persons according to the requirement of the services.
- All basic/ detailed drawings by Architect wherever special services or equipments are required, and all the drawings for the structure will be checked and approved by Architect before submitted for approval to IIM INDORE. The decision of IIM INDORE for the drawings to be submitted for special equipment or services or structure will be final to this effect.
- The Architect shall comply with all applicable laws, bye-laws, and statutory provisions etc. in the performance of the assignment and in the execution of the project.
- The Architect shall comply with all the applicable norms/codes/guidelines/regulations/bye-laws/statutes of local as well as Central Govt. Bodies.
- The Architect shall ensure that the nature, position, and appearance of all controls of piped services and electrical installation satisfy user and aesthetic requirements, and ensure that adequate coordination drawings are included. He shall also ensure that the various building/engineering services are suitable and economically designed without any discrepancies between the structure and finishes, and the requirements of service installation.
- The Architect shall have to co-ordinate with the IIM INDORE and attend meetings as and when required by IIM INDORE.
- Architectural Services in the following highlighted areas:-
    i. All Architectural Services including building plans, Landscaping and Signage plans etc.
    ii. All Electrical and Mechanical Engineering Services should be designed as "NET ZERO ENERGY" Services.
    iii. All Public Health Engineering Services
    iv. Green Building Concept (Norms to be followed as per Platinum-LEED/5 Star- GRIHA)
    v. All art work and signage
    vi. All water supply & drainage system
    vii. Any other services which are required but not specifically indicated
- The Architect will prepare the specifications and requirements for all existing services and other constraints existing in and around the site and get it approved from IIM INDORE. Thereafter, the work will be got executed by the Architect and the report will be utilized for planning and designing of the overall scheme.
- The Architect will study and interpret the soil investigation reports and input data for structural and foundation design for individual buildings/ structure. as per relevant IS codes. **The Soil investigation & determination of safe bearing capacity is being attached with NIT.**
- Concept Design development, submission & approval
    i. Ascertain IIM Indore's requirements and examination of site constraints and potential for individual buildings, external and

internal systems/ services, and preparation of a brief for IIM INDORE's review/ recommendations and IIM Indore's approval including conceptual / control designs/ drawings/ documents and incorporating required changes, if any.

ii. Development of the concept design after interacting with IIM INDORE.

iii. Submission of the concept design and make presentation of the entire scheme.

iv. Modifications in the concept plan taking into account thecomments, suggestions of IIM INDORE and submitting the same to IIM INDORE for approval.

v. Submission of the final concept design along with render, photograph, 3D-walk through as per norms etc. to IIM Indore. The cost of such render, photographs, etc. shall be borne by the Architect.

vi. Obtaining approval of the Concept design from IIM Indore.

- **DETAILED ARCHITECTURAL SERVICES**

i. Prepare tender drawings. The tender drawings & documents shall include detailed site plan, detailed drawings for each buildings including floor plans, elevations, door & window schedules, finishing schedules, fitting schedules, color schemes, flooring patterns, reflected ceiling plans, ironmongery, joinery, installation details, wall profiles, Staircases, ramp and lift details, details of important building parts /areas, landscape & horticulture details etc. As far as possible standards of quality performance requirement and descriptive names shall be used rather than specific products or brand names.

ii. Drawings shall be adequately detailed and shall contain enough information to enable construction, full measurement, pricing and production of bill for payment. The drawing shall include:

a. Layout Plan showing:

- All proposed buildings, play fields, green area, Sewage line
- Blow up of road junction / parking area and other such area as required.
- Coordinated External services

b. Detailed Drawings of:

- Floor plans, fully coordinated with all services/disciplines
- Elevations
- Sections
- Wall profiles
- Doors & Window details
- Stairs/Ramps/Lifts details
- Details of building parts, areas, critical special treatments.
- Toilet details including sewerage line/septic tank.
- Flooring pattern and details

- Dado details
- Detailed drawing of art work.
- Any other detailed require by the Engineer-In-charge.

c. Landscape & Horiculture

- Drawings of landscape including blow up of critical areas / landscapes / plantation schemes in detailed coordination with all external services
- Horticulture details

d. Any other details required for completion of thebuildings/services.

e. **ELECTRICAL ENGINEERING SERVICES**

The electrical system shall be designed in accordance with "Net Zero energy "and GRIHA norms and it should conform to GRIHA 5 Star Rating/ Platinum-LEED Rating. The services to be provided by Architect shall include Design Basis Report, Preliminary & Detailed Estimates, Load Calculation, Design and Drawings, specifications.

(i) Internal and External Electrification

- ✓ Design of internal electrification network of building with adequate sizing of cables, wires, switchgears, distribution boards, panels, electrical fittings, fixtures etc.
- ✓ Earthing protection system to be planned in accordance with latest IS standards.
- ✓ Lifts for medical centre.
- ✓ Calculation and Simulation required conforming to GRIHA 5 Star Rating/ Platinum-LEED Rating for complete electrical lightning system for the best illumination level (foot candles), uniformity, layout, and aesthetic considerations such as color rendition shall be taken into account.
- ✓ Measures for energy conservation -day light harvesting, occupancy sensor etc.

(ii) External Electrification- other works

- ✓ Street lights and landscape lightning to be provided in accordance with GRIHA.

f. Renewable Energy sources

- ✓ Design of alternative renewable energy sources along with solar power generation to minimize the energy requirement from conventional sources.

- ✓ Solar power system at desired voltage level shall be in corporate with an import/export power scheme. Automatic transfer scheme from raw power to renewable power shall be provided with a suitable provision in electrical panels.
- ✓ Solar Potential Study and recommendations for whole area along with Grid connectivity.

g. Energy/Building Management System (BMS)

- ✓ Building management system shall be the backbone of services it should be planned on open protocol. It shall integrate all the necessary services of the building for close operation and monitoring of the services from a single window.
- ✓ Schematic design of BMS system with complete IO summary showing proper integration of all the services.

h. Telephone, Intercom & Communication System

- ✓ Telephone layout and telephone equipment including conduit and accessories layout for the telephone system and any protective devices battery back-up required.
- ✓ Design the EPABX/EPBX room. Prepare conduit layout of cables and terminals inclusive of a fiber optic or other special data transmission cables for system required.
- ✓ Intercom layout and intercom equipment including conduit and accessories layout for the intercom system and any protective devices required.
- ✓ Topology of networking, LAN (Structured Cabling), cables, conduits, raceways, sockets, layout drawings floor wise.
- ✓ Prepare the specifications and bills of quantities.
- ✓ Check and approve detailed drawings of the suppliers and manufacturers
- ✓ Latest IP based telephony system

i. Cable TV/Dish Antenna System.

- ✓ Prepare working drawings indicating the locations of TV points,Central panel/racks of dish antenna.
- ✓ Prepare specifications and bills of quantities.
- ✓ Check and approve the suppliers'/ manufacturers drawings/documents.

j. Lightning Protection and Earthing System

Lighting protection system shall be an advanced integrated lighting protection system. The work shall include, but not limited to, the

following:

- ✓ Prepare plans showing internal/external earth grid, earth electrodes and lightning protection with size of conductors and details of each electrical and lightning arrestors along-with details of earthing pits.
- ✓ Earth system shall be as per relevant Indian Standards and Indian Electricity rules.

k. External Lighting

- ✓ Assess the external lighting requirement for parking, buildingsetc.
- ✓ Prepare plans indicating the road lighting with circuit details,typical pole detail with type of fixture, cabling, earthing etc.
- ✓ Prepare the specifications and bills of quantities.
- ✓ Check and approve detailed drawings of the suppliers and manufacturers

l. UPS back-ups

- ✓ Prepare the plan indicating the locations of UPS rooms in the buildings, UPS room layout, Floor wise UPS power distribution drawings, Single line diagram/Power flow diagram.
- ✓ Prepare specifications and bills of quantities;
- ✓ Check and approve detailed drawings of the suppliers/ manufacturers;

m. Solar Heating

- ✓ Planning and installation of Solar Heating System for building.
- ✓ Prepare specification and bill of quantities.
- ✓ Check and approve detailed drawings of thesuppliers/manufacturers.

n. CCTV, Public Address system, Access Control system, Audio-Visual System and Vehicle management System.

- ✓ Planning & Designing of CCTV, Public Announcement, Access Control system and Vehicle management System & Equipments with high level integration.

o. IT and LAN Networking System

- ✓ Design and drawing of multi core optical fiber cable

distribution network system for easy and stable accessibility of intranet and internet services of the building.

- ✓ The design should incorporate detailed planning of all active and passive components for high level and low level networking.
- ✓ Design of LAN network of the building for IT labs, Accesspoints, WI-FI campus.

p. Fire Detection and fire alarm system.

- ✓ Design the FDA Control Room layout
- ✓ Prepare working drawings (Floor wise) indicating the zones, location of the fire alarm sensors, Response Indicator, Manual call points, Hooters, their conduits and wiring and location/details of FDA control panels, evacuation plans

q. Lifts and Escalators

- ✓ Specify the capacity and type of lifts/escalators to be providedand prepare layout for the necessary machine areas.
- ✓ Finalize the design for lifts and escalators installation as perthe Statutory/local regulations.
- ✓ Prepare specifications and bills of quantities.
- ✓ Lift and escalators shall be designed in accordance with person with disability and old age person to make the campus barrier free.

r. Fire Fighting & Fire Suppression System

- ✓ Design and prepare working drawings for internal and external fire protection and suppression system including hydrant, sprinkler system, CO_2 flooding system, pressurization system, fire extinguisher system, Underground Tanks, fire pump rooms etc. in line with the statutory requirements.
- ✓ Size all equipment required and prepares detailed specifications and bill of quantities.
- ✓ Check and approve detailed drawings and data sheet of suppliers/ manufacturer

s. Plumbing and Integrated Water Management System

- ✓ Design and drawing of plumbing system for internal and external. It shall include comprehensive design concepts and installation guidelines for energy conservation and water harvesting.
- ✓ Integrated and sustainable water management focusing on least anthropogenic water discharge from human activities

should be pursued.

- ✓ Involve use of efficient building and plumbing services components and fixtures tailor-made to meet sustainability objectives and creating sufficient awareness among the users of building facility and its services, during the occupancy stage.
- ✓ Minimize the consumption of mains supply potable water and minimize the volumes of urban storm water run-off.

t. PUBLIC HEALTH ENGINEERING

A. All the design and drawings should be well coordinated with Architecture and other services drawings.

B. All designs shall be as per the latest Indian Standards, Local bye-laws and statutory norms/regulation.

C. The services shall include following major components as discussed in detail:
   i) Water Supply System
   ii) Internal Sanitary Installations
   iii) Sewerage System
   iv) Drainage System

i) Water Supply System

- ✓ Calculation of water requirements for domestic, non-domestic and other services.
- ✓ Design and prepare working drawings of internal and external water supply system including Overhead tank,
- ✓ Prepare specifications and bill of quantities.

ii) Internal Sanitary Installations

- ✓ Prepare specifications and bill of quantities.

(iii) Drainage

- ✓ Design and prepare working drawings for storm water drainage including roof drainage, service area drainage and surface drainage
- ✓ Design and prepare working drawings for rain water harvesting system.

u. SITE DEVELOPMENT WORKS

i. prepare working drawings (longitudinal & cross section) forroads/ footpaths/ parking areas etc.

ii. prepare working drawings of irrigation system for horticulture.

1.0 INTRODUCTION

The subject of load bearing capacity of soils is of great importance to Engineers who have to design foundations for buildings and structures which are heavy, large and tall. Such structures are required to be put to meet the varying requirements which have come about in the work of substantial. More important the structure is, greater is the need to give attention to design and construction of its foundation.

The design and construction of foundation of heavy structure is not an easy task. It calls for ability and experience. The most important factor which influences design of foundations is the load bearing capacity of soils met with. Therefore, in arriving at the safe load bearing capacity of soils, the properties and characteristics of the soil at site is required to be determined.

It has many times been experienced that not only the design of foundation is difficult task, the pre- requisite for which are the proper site investigation, field test and laboratory testing, but the actual construction of foundation also poses difficult problems. It is, therefore necessary to conduct the detail investigations at site before a design can be finalized. The object of subsurface and related site investigations is to provide the engineer / Architect with as much information as possible about the existing conditions, for example, the exposed overburden, the course of a stream nearby, a rock outcrop or a hillock, vegetation and other geological features of the area. It is equally important to know the sub soil conditions below a proposed structure.

The methods of sub surface investigation enable vertical sections of the strata to be drawn and samples to be tested, on the site or in a laboratory for determining shear strength parameters, bearing capacity of the soils, permeability, water table, type, classification and other geophysical information in the field. This information together with the normal topographical survey provides the Engineer with complete details of the site and enables him to know the complexity of natural deposits. No one method of exploration is best for all situations. Site reconnaissance would help in deriving program of field investigations that is to assess the need for preliminary or detailed investigations.

IIM, Indore has proposed the construction of New Security Office and New Transport Office at IIM campus, Indore (M.P.). The consultant of the client has desired the assessment of Safe Bearing Capacity for the structural design of the foundation and recommendation of foundation. Accordingly **IIM, Indore** approached **M/s Rajmi Geoexploration & Engg. Pvt. Ltd. (RGEPL), Indore** to conduct the Geotechnical

investigation by drilling the borehole at three locations for assessments of Safe Bearing Capacity for structural design of foundation. As per the discussions and directions of the local representative of the client; three locations were shown for drilling the bore holes to know the soil/rock profile and engineering properties of the underlying soil/rock.

The report presents the compiled data of test results of Geotechnical investigation. The observed data of field investigations and laboratory tests are presented and used to access the nature of subsoil strata and to evaluate the soil parameters required for the detailed design of foundation for proposed structure.

The purpose of the investigation is to determine geotechnical requirements of the foundation. The Geotechnical Engineers of RGEPL conducted the test at the proposed site and have collected the samples for laboratory testing.

2.0 SITE TOPOGRAPHY

The site is located at IIM, Indore. The site is fairly plane and physically falls in Indore district, which forms the Western part of state of Madhya Pradesh. The site lies in seismic zone - III.

2.1 GEOGRAHY OF LOCALITY

2.1.1 CLIMATE

Climate of the area is generally dry except during southwest monsoon in June to September, winter season is in between December to February. Summer begins with mid of March to mid of June the area experiences wide spread heavy rains and strong winds during the July August.

2. 1.2 RAINFALL

The site is located in the Indore block a part of which constitutes Indore block, a part of which constitutes Indore urban agglomerate. The rainfall of the area is well distributed during the southwest monsoon season. The normal annual rainfall of Indore city is 976 mm (1971-03) as per IMD.

2.1.3 TEMPERATURE

The mean daily minimum temperature occurs in January is 5°C. The mean daily maximum temperature is 43°C and occurs in May/June. The annual mean temperature is 25.95°C. The temperature decreases in the month of October and progressively rises

during the end of February.

3. GEOLOGY

Deccan traps basalts are the major geological formations occupying Indore and surrounding area accordingly to geological survey of India 38 lava flows having a thickness of 610m in Malwa region are reported. Indore district has 5 flows having thickness of 61.50 m.

In upper cretaceous times a series of lava flows emanated through fissures and flooded the entire vindhyan topography. The eruption of lava flows came to end in the Eocene times and the area was again subjected to erosion activities. Lithologically the trappean flows are grouped with:

- Massive
- Vesicular

Te massive basalts are generally fine to medium grained, dark gray to greenish in colour. The depth of weathering observed is generally 3 to 6 meters.

The vesicular unit of each flow forms the upper horizon and generally ranges in thickness from few meters to as much as 10 m. it is medium to coarse grained and vesicles are generally filled with secondary minerals. This unit is joined to some extent and weathered easily due to two flows, not present which indicates that the time gap between two successive flows was too small.

The alluvium deposits of recent to sub-recent age are mainly confined to the banks of river Khan. They comprise mainly of sand gravel clay and silt while sand and gravel restricted to the riverbed, the clay and silt are confined to the banks. The maximum thickness is reported as 10-12m. The Stratigraphic succession of the area is illustrated in the Table (A) and is based on district resource Map prepared by Geographical Survey of India.

TABLE: - (A) Geological succession of the region

	Lithology	Stratigraphic Status	Age
5	Compound, pathoehole basaltic lava flows with a megaporphyritic flow at top	Singarchori Fm	
4	"Aa" basaltic l Lava flows with compound 'Pahoehoe' megaporphyritic flows at the top and an intertrappean bed at 660 m in the estern part (11 Flows)	Bargond Fm.	

3	'Aa' and compound 'pahoehoe' basaltic lava flows with a megaporphyritic flows at the top and an intertrappean bed at 520 m in the eastern part (08 flows)	Indore Fm
2	'Aa' basaltic lava flows with megaporphyritic flows at the top and an intertrappean bed at 520m in the eastern part (6 Flows)	Kankariya PiruKheri Fm
1	'Aa' basaltic lava flows with megaporphyritic flows at the top (11 flows)	

➢ AIMS & SCOPE OF INVESTIGATION

The present soil investigation work has been assigned to **M/s Rajmi Geoexploration & Engineering Pvt. Ltd., Indore** by **IIM, Indore.** It was desired by the client to drill three boreholes within the plot situated at **IIM, Indore**. The locations of boreholes were decided by the client and were shown on the plot.

The following was the Geotechnical Investigation Program:

1. Drilling three boreholes through mechanical drilling by Hydraulic machine
2. Collection of representative disturbed & undisturbed soil samples and rock cores.
3. Conducting Standard Penetration Test in bore holes. The laboratory test comprised of the following:

1. Natural Moisture Content, Field Density and Specific Gravity
2. Grain Size Analysis
3. Atterberg's Limits (Liquid Limit, Plastic Limit & Shrinkage Limit)
4. Triaxial Compression/ Direct Shear (Unconsolidated and Undrained)
5. Free Swell Index
6. Consolidation (If required)

On the rock cores the following tests were planned

- Density
- Specific Gravity
- Water Absorption and
- Unconfined Compressive Strength

4.0 FIELD & LABORATORY TESTS

4.0.1 Field Tests/work:-

The following field works have been planned

(i) Standard Penetration Test (SPT) - It is the most popular and economical means to obtain subsurface information. It is estimated that 85 to 90 percent of the conventional foundation design in North and South America is made using SPT. The conduction of SPT test has been done is accordance with IS 2131 (1981) - "Method of standard penetration test for Soils". A split spoon sampler 50.8 mm outer diameter and 35 mm internal diameter is driven into the undisturbed soil at the bottom of borehole under a hammer of 65 kg weight falling through a height of 75 cm. The number of blows required to drive the sampler 30 cm beyond sitting drive of 15 cm is termed as Standard Penetration Resistance denoted by N.

The Standard Penetration Test values at 1.50 m depths in two boreholes are shown from Table - 1 to Table - 3.

(ii) Collection of representative soil samples: - It was planned to collect the disturbed soil samples and undisturbed soil samples at suitable depths wherever possible looking to the strata observed at the site.

4.1.2. Lab Tests: - It was planned to conduct the following lab tests on soil samples

1. Grain Size Analysis (both dry & wet analysis)
2. Atterberg's Limits
3. IS Classification
4. Specific Gravity
5. Free Swell Index
6. Natural Moisture Content & Field Density
7. Triaxial Compression

Grain Size Analysis along with Atterberg's limits is used for soil classification, which is also an indirect way of getting various properties of soil.

Specific Gravity, In-situ Density and Natural Moisture Contents are used to determine the void ratio and degree of saturation of soil. The Free Swell Index, Shrinkage Limit and Swelling Pressure values indicate the expansive behavior of soil. The triaxial compression test is the versatile test to determine the shear parameters of soil. The shear parameters are also used to assess the safe bearing capacity of soil indirectly.

On the rock cores explored from these boreholes the following tests have been conducted

- Density
- Specific Gravity
- Water Absorption and
- Unconfined Compressive Strength

5.0 DISCUSSIONS

Geotechnical investigation work has been carried out at the site situated at **IIM, Indore.** Three boreholes for machine drilling through soil and rock were drilled location shown by the client. The proposed work includes drilling of Bore hole through overburden and rock up to a maximum depth of 6.00 m depth, conducting of SPT at regular interval of 1.50 m in soil only till refusal and collection of disturbed & undisturbed soil samples for laboratory tests. The Geotechnical Investigation work was initiated by exploration of borehole drilling work which started on 20th November and completed on 21st November using one drilling rig. The testing of soil/rock samples has been completed in the manner as laid down in various codes of Indian Standards.

5.1 SOIL & ROCK PROFILE

(BH - 1)

The drilling of 75 mm diameter by soil cutter and diamond bit of Nx size using Hydraulic machine for the exploration of rock cores has been done. From 0.00 m to the explored depth of 6.00 m the rock cores of different characteristics as mentioned in Table - 1 were obtained.

(BH - 2)

The drilling of 75 mm diameter by soil cutter and diamond bit of Nx size using Hydraulic machine for the exploration of rock cores has been done. From 0.00 m to the explored depth of 6.00 m the rock cores of different characteristics as mentioned in Table - 2 were obtained.

(BH - 3)

The drilling of 75 mm diameter by soil cutter and diamond bit of Nx size using Hydraulic machine for the exploration of rock cores has been done. From 0.00 m to the

explored depth of 6.00 m the rock cores of different characteristics as mentioned in Table - 3 were obtained.

6.0 COMPUTATIONS OF SAFE BEARING CAPACITY

6.1.0 (FOR SOIL)

(I) BASED ON SHEAR CONSIDERATION

Various kinds of Shear tests are there to get shear parameters. The Safe Bearing Capacity is calculated as per IS: 6403- 1981 (determination of bearing capacity of shallow foundations). For local and general shear failure the net safe bearing capacity is given as follows:

$Q_{ns} = [C\ Nc\ S_c\ d_c\ i_c + q\ (Nq-1)\ S_q\ d_q\ i_q + \frac{1}{2}\ B\ \gamma\ N\gamma\ d\gamma\ i\gamma\ W]/F$ (In case of General shear failure)

$Q_{ns} = [2/3\ C\ N'c\ S_c\ d_c\ i_c + q\ (N'q-1)\ S_q\ d_q\ i_q + \frac{1}{2}\ B\ \gamma\ N'\gamma\ d\gamma\ i\gamma\ W]/F$ (In case of local shear failure)

Where q_{ns} = Net Safe Bearing Capacity

C = Cohesion (for Non cohesive material C = 0)

ϕ = Angle of internal friction

ϕ' = $\tan^{-1}(0.67 \tan(\emptyset))$ for local shear failure

γ = Average density of over burden

N_c, N_q, N_γ = Bearing Capacity factors for General Shear Failure N'_c, N'_q, N'_γ = Bearing Capacity factors for Local Shear Failure S_c, S_q, S_γ = Shape factors

d_c, d_q, d_γ = depth factors

i_c, i_q, i_γ = inclination factors (1 in the case of vertical loads)

q = Effective surcharge at depth of" X" m below ground level.

W = Water Table correction factor is 0.50 (When WT is at base of footing) B = Width of footing in m

F = Factor of safety

6.2.0 (FOR ROCK): - Based upon Rock Mass Rating (RMR)

According to the Indian Standard Code (IS: 12070 -1987 reaffirmed in 2005) the safe bearing capacity of the rock can be obtained by any of the following methods;

- By Rock Mass rating
- By Core Strength
- By Pressure meter
- By conducting plate load test

It has been shown that the choice of the method depend upon the quality of the rock. For the good rock quality with wide (1m to 3m) or very wide (>3m) spacing of discontinuity RMR criteria should be adopted. Rock mass with closed discontinuity at moderately close (0.3 to 1m) spacing the criteria of core strength should be adopted.

In our case we have adopted RMR criteria.

Rock Mass Rating:-

For computation of bearing capacity of rock formation the geological observations for joints faults, shear zone etc are important. The Rock Mass Rating (RMR) Value is obtained based upon many factors as follows

(i) **Strength of Rock:** - The RMR value depends upon the unconfined compressive strength of the rock. Depending upon the value of Strength of rock core the rating points from 0 to 15 are awarded.

Unconfined Compressive Strength (MPa)	RMR Increment	
> 250	15	
100 - 250	12	
50 - 100	7	* Do not use this rock
25 - 50	4	
10 - 25	2*	
2 - 10	1	8
<2	0*	

(ii) Drill Core Quality: - The drill quality is related to the Rock Quality Designation (RQD). Depending upon RQD value the rock is given rating points ranging from 3 to 20 is awarded.

RQD (%)	91 - 100	76 - 90	51 - 75	25 - 50	<25
Rating Increment	20	17	13	8	3

(iii) Joint Spacing: - The RMR value depends upon the spacing of joints. The rating increment should reflect the joint set which is the most critical for a particular

application. If the rock mass has fewer sets of joints, the rating is increased. Depending upon the spacing of joints the rock is given rating points ranging from 5 to 30 is awarded.

Joint Spacing (m)	>2	0.6 - 2	0.2 - 0.6	0.006 - 0.2	< 0.006
Rating Increment	20	15	10	8	5

(iv) Joint Characteristics: - The condition of the joint sets most likely to influence a particular application should be considered for the rating. The increment of RMR for joint characteristics depends upon the roughness of the joint. Based upon the joint conditions such as very rough surface smooth surface etc. rock is given rating points from 0 to 25.

Joint Description	Rating increment
Very rough and Unweathered wall rock, tight and discontinuous, no separation	30
Rough and Slightly weathered wall rock surface, separation <1mm	25
Slightly rough and moderately to highly weathered wall rock surface, Separation <1mm	20
Slickensided wall rock surface or 1-5mm thick gauge or 1-5mm wide opening, continuous discontinuity	10
5mm thick soft gauge 5mm wide continuous discontinuity	0

(v) Ground water conditions: - Ground water condition can influence the rock mass behaviour to a large extent. The RMR value depends upon the general condition of the rock, which, in turn, depends upon the ground water. Depending upon the ground water condition the rock is given rating points ranging from 1 to 10 is given.

General Condition	Inflow per 10 m tunnel length (lit/min)	Joint water pressure divide by major principal stress	Rating Increment
Completely dry	None	0	15
Damp	<10	0 - 0.1	10
Wet	10 - 25	0.1 - 0.2	7
Dripping	25 - 125	0.2 - 0.5	4
Flowing	>125	>0.5	0

Based upon the RMR value (obtained by adding the rating points of the entire five criterion as above the rock classified as very poor (RMR 0- 20), poor (RMR 21-40), fair (RMR

41-60), good (RMR 61-80 and very good (RMR 81-100). As per IS 12070 the Safe Bearing Capacity can be obtained based upon rock classification

7.0 MODULUS OF SUBGRADE REACTION

The modulus of subgrade reaction is a conceptual relationship between soil pressure and deflection that is widely used in the structural analysis of foundation members. It is used for continuous footings, mats, and various types of pilings to be taken up in later chapters. The basic equation when using SBC and permissible Settlement may be written as follow *($ 9-6, PP-501, Ref. foundation analysis and design, Jopesh E. Bowles, Fifth Edition, The McGraw-Hill Companies, Inc.)*

$$K_s = q/\delta$$

Ks = Load/Settlement

Load (in Mpa)

Settlement (in m)

For Depth 1.25 mtr

Ks =0.325/0.012

***Ks* = 27.08**

Mpa/m For Depth

2.50 mtr *Ks*

=0.350/0.012

***Ks* = 29.17 Mpa/m**

8.0 RECOMMENDATIONS

Drilling of three boreholes within the plot, conduction of SPT, collection of samples from different depths and extraction of rock cores up to 6.00 m below the existing ground level has been carried out at the site of client situated at IIM, Indore. Based upon the soil/rock profile, the consolidated results along with the level of foundation, SBC and type of rock at Foundation level are reproduced in Table A

For Structure to be constructed near boreholes Isolated Footing may be Recommended.

TABLE - A

Borehole No.	Observed Ground Level	Recommended Level of Foundation	Type of Rock at Foundation Level	Unconfined Compression Strength (MPa)	Rock Mass Rating	Calculated Safe Bearing Capacity	Recommended SBC (T/m^2)
BH - 1	-	1.25	Small Cores of Fairly Hard Vesicular & Amygdular Basalt	0.25*	11	38.25	32.50
	-	2.50		0.17*	12	39.00	35.00
BH - 2	-	1.25	Highly Fractured & Weathered Basalt	0.15*	12	39.00	32.50
	-	2.50		0.28*	13	39.75	35.00
BH - 3		1.25	Highly Fractured & Weathered Basalt	0.32*	11	38.25	32.50
		2.50	Small Cores of Fairly Hard Basalt	0.47*	11	38.25	35.00

9.0 REFERENCE (CODES & STANDARDS)

Sr. No.	CODE NO	TITLE OF CODE
1.	IS 1892:1979: RA 2021	Code practice for subsurface investigations for foundations
2.	IS 2131:1981:RA 2021	Method of standard penetration test for soils
3.	IS2132:1986: RA 2021	Code practice for thin-walled tube sampling of soils
4.	IS2720: PART 1 to PART31 & IS2720 PART 33 to PART 41	Methods of test of soils
5.	IS6403:1981: RA 2021	Code of practice for determination of bearing capacity of shallow foundations
6.	IS8009:1976 part I: RA 2018	Code of practice for calculation of settlement of foundation part - 1Shallow foundations
7	IS:2720 (part IV)-1985: RA 2020	Grain Size Analysis
8.	IS2720 (part V)-1985: RA 2020	Consistency limits
9.	IS 2720 (part III/Sec 2)-1980: RA 2021	Specific gravity
10.	IS 2720 (part II)-1973: RA 2020	Natural moisture content
11.	IS 2720 IS 2720 (part-XI)-1993: RA 2021	Triaxial Compression Test (UU)

Fig. 1 (a) Shows Core Box Pictures for BH-1

Fig. 1 (b) Shows Core Box Pictures for BH-2

Fig. 1 (c) Shows Core Box Pictures for BH-3

RMR Rating	SBC T/M²
0 - 20	30 - 45
21 - 40	48 - 135
41 - 60	141 - 280
61 - 80	288 - 440
81 - 100	448 - 600

Table- A (SBC CALCULATION ON THE BASIS OF RMR)

UCS (MPa)	RMR Increment
<2	0
2 - 10	1
10 - 25	2
25 - 50	4
50 - 100	7
100 - 250	12
>250	15

RQD (%)	Rating Increment
<25	3
25 - 50	8
50 - 75	13
75 - 90	17
90 - 100	20

Joint Spacing (m)	RMR Increment
<0.006	5
0.006 - 0.2	8
0.2 - 0.6	10
0.6 - 2	15
>2	20

No.	BH No.	Proposed Level	UCS (MPA)			Average UCS (Mpa)	RQD (%)			Average RQD (%)	Core Recovery (%)			Average CR (%)	UCS	RQD	Joint Spacing	Joint Condition	GWT Condition	Orientation of Joint	RMR Rating	SBC T/M²
1	BH - 1	1.25	5.5	3.74	12.61	**7.28**	0	0	29	**9.66667**	18	40	53	**37.00**	1	3	5	10	7	15	11	38.25
2	BH - 1	2.50	3.74	12.61	6.82	**7.72**	0	29	0	**9.66667**	40	53	38	**43.67**	1	3	6	10	7	15	12	39.00
3	BH - 2	1.25	3.3	6.16	25.96	**11.81**	0	0	0	**0**	19	20	23	**20.67**	2	3	5	10	7	15	12	39.00
4	BH - 2	2.50	6.16	25.96	16.06	**16.06**	0	0	0	**0**	20	23	39	**27.33**	2	3	6	10	7	15	13	39.75
5	BH - 3	1.25	7.04	10.34	2.2	**6.53**	0	0	0	**0**	15	17	17	**16.33**	1	3	5	10	7	15	11	38.25
6	BH - 3	2.50	10.34	2.2	12.32	**8.29**	0	0	0	**0**	17	17	19	**17.67**	1	3	5	10	7	15	11	38.25

BORE LOG SHEET FOR BH - 1

PROJECT NAME	Construction of New Security Office and New Transport Office
SITE	In Front of Visiting Faculty Apartment, IIM Indore
BOREHOLE NO.	BH-1
RL OF GROUND =	
DATE OF START	20/11/2024
DATE OF COMPLETION	20/11/2024

DRILL. RUN (M) BELOW GROUND/REFERENCE	REDUCED LEVEL (m)	DATE OF SAMPLING	NATURE OF SAMPLE	NUMBER OF CORES EXTRACTED	SIZE OF CORE PIECES IN CM (MIN - MAX)	NUMBER OF CORE SAMPLE FOR TESTING	LEVEL OF WATER TABLE/L.W.L.	S.P.T Value: Depth (M)	S.P.T Value: 0 - 15 cm	S.P.T Value: 15 - 30cm	S.P.T Value: 30 - 45cm	S.P.T Value: N Value	DIA OF CASING (MM)	DESCRIPTION OF ROCK TYPE (COLOUR GRAIN SIZE TERTURAL COMPOSITION DEGREE OF WEATHERING ETC.)	DETAILS OF WATER COLOUR ETC.	CORE RECOVERY (%)	ROCK QUALITY DESIGNATION (RQD) (%)	SYMBOLIC REPRESENTATION OF ROCK TYPE	Grain Size Analysis: % GRAVEL (>4.75mm)	Grain Size Analysis: % SAND (4.75 - 0.075	Grain Size Analysis: % SILT (0.075-0.002mm)	Grain Size Analysis: % CLAY (<0.002mm)	Atterberg's Limits: LIQUID LIMIT (%)	Atterberg's Limits: PLASTIC LIMIT (%)	Atterberg's Limits: SHRINKAGE LIMIT (%)	FREE SWELL INDEX (%)	SPECIFIC GRAVITY	SHEARING STRENGTH PARAMETERS: COHESION 'C' (kPa)	SHEARING STRENGTH PARAMETERS: ANGLE OF SHEARING	BULK DENSITY (kN/m^3)	NATURAL MOISTURE CONTENT/ WATER	VOID RATIO/POROSITY	ROCK CRUSHING STRENGTH (MPa)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
0.00 - 1.50		20.11.24	Core	1 - 3	1 - 2	2							75	Small Cores of Fairly Hard Vesicular & Amygdular Basalt	Gray	18	Nil										2.56			25.4	3.27		0.25*
1.50 - 3.00		20.11.24	Core	4 - 13	3 - 8	5							75		--do--	40	Nil										2.55			25.6	3.57		0.17*
3.00 - 4.50		20.11.24	Core	14 - 22	2 - 22	18							75	Fairly Hard Vesicular & Amygdular Basalt	--do--	53	29										2.60			26.3	1.46		12.61
4.50 - 6.00		20.11.24	Core	23 - 28	1 - 4	25							75	Hard Fractured Basalt	--do--	38	Nil										2.82			26.5	0.29		0.31*

1. Classification of soil: as per IS 1498, 2. Abbreviation used: DS = Disturbed sample, UD = Undisturbed sample, 1/2 Sample No.1/ at Bore No, Fr. = Fractures, SWL = Static Water Level, Sv = Sub vertical, Irr. = Irregular, 3 Type of Machine used in drilling: Diamond Drill, 4 Type of Core Barrel Used = Single Tube, 5 Size of Samples: As mentioned above,
6. Position of Ground Water table: as shown, 7 Shearing strength Characteristics based on Triaxial / Box Shears Test on Undisturbed / Disturbed Sample at Bulk Density (gm/cm^3). R = Refusal

Investigation Report Prepared by: Rajmi Geoexploration & Engineering Pvt. Ltd. Reg. Office 106-109, M. L. Tower 292-A, Scheme No.91 Near Malwa Mill Square Indore (MP) Cont: (0731) 2434588, Mob.9977035888, 9425460588

*POINT LOAD INDEX VALUE

BORE LOG SHEET FOR BH -2

		IIM, Indore													PROJECT NAME				Construction of New Security Office and New Transport Office														
															SITE				In Front of Visiting Faculty Apartment, IIM Indore														
															BOREHOLE NO.				BH - 2														
RL OF GROUND =								DATE OF START						20/11/2024	DATE OF COMPLETION						20/11/2024												
DRILL. RUN (M) BELOW GROUND/REFERENCE	REDUCED LEVEL (m)	DATE OF SAMPLING	NATURE OF SAMPLE	NUMBER OF CORES EXTRACTED	SIZE OF CORE PIECES IN CM (MIN - MAX)	NUMBER OF CORE SAMPLE FOR TESTING	LEVEL OF WATER TABLE/L.W.L.	S.P.T Value					DIA OF CASING (MM)	DESCRIPTION OF ROCK TYPE (COLOUR GRAIN SIZE TERTURAL COMPOSITION DEGREE OF WEATHERING ETC.)	DETAILS OF WATER COLOUR ETC.	CORE RECOVERY (%)	ROCK QUALITY DESIGNATION (RQD) (%)	SYMBOLIC REPRESENTATION OF ROCK TYPE	Grain Size Analysis				Atterberg's Limits			FREE SWELL INDEX (%)	SPECIFIC GRAVITY	SHEARING STRENGTH PARAMETERS		BULK DENSITY (kN/m³)	NATURAL MOISTURE CONTENT	VOID RATIO/POROSITY	ROCK CRUSHING STRENGTH (MPa)
								Depth (M)	0 - 15 cm	15 - 30cm	30 - 45cm	N Value							% GRAVEL (>4.75mm)	% SAND (4.75 - 0.075 mm)	% SILT	% CLAY (<0.002mm)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	SHRINKAGE LIMIT (%)			COHESION 'C' (kPa)	ANGLE OF SHEARING				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
0.00 - 1.50		20.11.24	FS	-	-								75	Highly Fractured & Weathered Basalt	Gray	19	Nil										2.45			25.2	2.02		0.15*
1.50 - 3.00		20.11.24	FS	-	-								75		--do--	20	Nil										2.52			25.4	1.59		0.28*
3.00 - 4.50		20.11.24	Core	1 - 8	2 - 4	1							75	Small Cores of Fairly Hard Basalt	--do--	23	Nil										2.73			25.8	0.56		1.18*
4.50 - 6.00		20.11.24	Core	9 - 20	2 - 9	16							75	Hard Fractured Basalt	--do--	39	Nil										2.63			26.2	1.67		0.73*

1. Classification of soil: as per IS 1498, 2. Abbreviation used: DS = Disturbed sample, UD = Undisturbed sample, 1/2 Sample No. 1/ at Bore No, Fr. = Fractures, SWL = Static Water Level, Sv = Sub vertical, Irr. = Irregular, 3 Type of Machine used in drilling: Diamond Drill, 4 Type of Core Barrel Used = Single Tube, 5 Size of Samples: As mentioned above, 6 Position of Ground Water table: as shown, 7 Shearing strength Characteristics based on Triaxial / Box Shears Test on Undisturbed / Disturbed Sample at Bulk Density (gm/cm³). R= Refusal

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*POINT LOAD INDEX VALUE

BORE LOG SHEET FOR BH-3

Indicative Images:-

PROJECT NAME	Construction of New Security Office and New Transport Office
SITE	In Front of Visiting Faculty Apartment, IIM Indore
BOREHOLE NO.	BH - 3
DATE OF COMPLETION	21/11/2024

RL OF GROUND = | DATE OF START: 21/11/2024

DRILL RUN (M) BELOW GROUND/REFERENCE	REDUCED LEVEL (m)	DATE OF SAMPLING	NATURE OF SAMPLE	NUMBER OF CORES EXTRACTED	SIZE OF CORE PIECES IN CM (MIN - MAX)	NUMBER OF CORE SAMPLE FOR	LEVEL OF WATER TABLE/L.W.L.	S.P.T Value: Depth (M)	S.P.T Value: 0 - 15 cm	S.P.T Value: 15 - 30cm	S.P.T Value: 30 - 45cm	S.P.T Value: N Value	DIA OF CASING (MM)	DESCRIPTION OF ROCK TYPE (COLOUR GRAIN SIZE TEXTURAL COMPOSITION DEGREE OF WEATHERING ETC.)	DETAILS OF WATER COLOUR ETC.	CORE RECOVERY (%)	ROCK QUALITY DESIGNATION	SYMBOLIC REPRESENTATION OF	Grain Size Analysis: %	Grain Size Analysis: % SAND (4.75 -	Grain Size Analysis: % SILT (0.075-	Grain Size Analysis: % CLAY	Atterberg's Limits: LIQUID LIMIT	Atterberg's Limits: PLASTIC LIMIT	Atterberg's Limits: SHRINKAGE LIMIT	FREE SWELL INDEX (%)	SPECIFIC GRAVITY	SHEARING STRENGTH PARAMETERS: COHESION 'C'	SHEARING STRENGTH PARAMETERS: ANGLE OF	BULK DENSITY (kN/m³)	NATURAL MOISTURE CONTENT	VOID RATIO/POROSITY	ROCK CRUSHING STRENGTH (MPa)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
0.00 - 1.50		21.11.24	FS	-	-								75	Highly Fractured & Weathered Basalt	Gray	15	Nil										2.51			25.4	2.23		0.32*
1.50 - 3.00		21.11.24	Core	1 - 8	2 - 6	3							75	Small Cores of Fairly Hard Basalt	--do--	17	Nil										2.65			25.6	1.19		0.47*
3.00 - 4.50		21.11.24	Core	9 - 13	2 - 9	10							75		--do--	17	Nil										2.52			25.2	4.29		0.10*
4.50 - 6.00		21.11.24	Core	14 - 22	1 - 4	20							75		--do--	19	Nil										2.54			25.3	4.68		0.56*

1. Classification of soil: as per IS 1498, 2. Abbreviation used: DS = Disturbed sample, UD = Undisturbed sample, 1/2 Sample No.1/ at Bore No, Fr. = Fractures, SWL = Static Water Level, Sv = Sub vertical, Irr. = Irregular, 3 Type of Machine used in drilling: Diamond Drill, 4 Type of Core Barrel Used = Single Tube, 5 Size of Samples: As mentioned above, 6 Position of Ground Water table: as shown, 7 Shearing strength Characteristics based on Triaxial / Box Shears Test on Undisturbed / Disturbed Sample at Bulk Density (gm/cm³), R= Refusal

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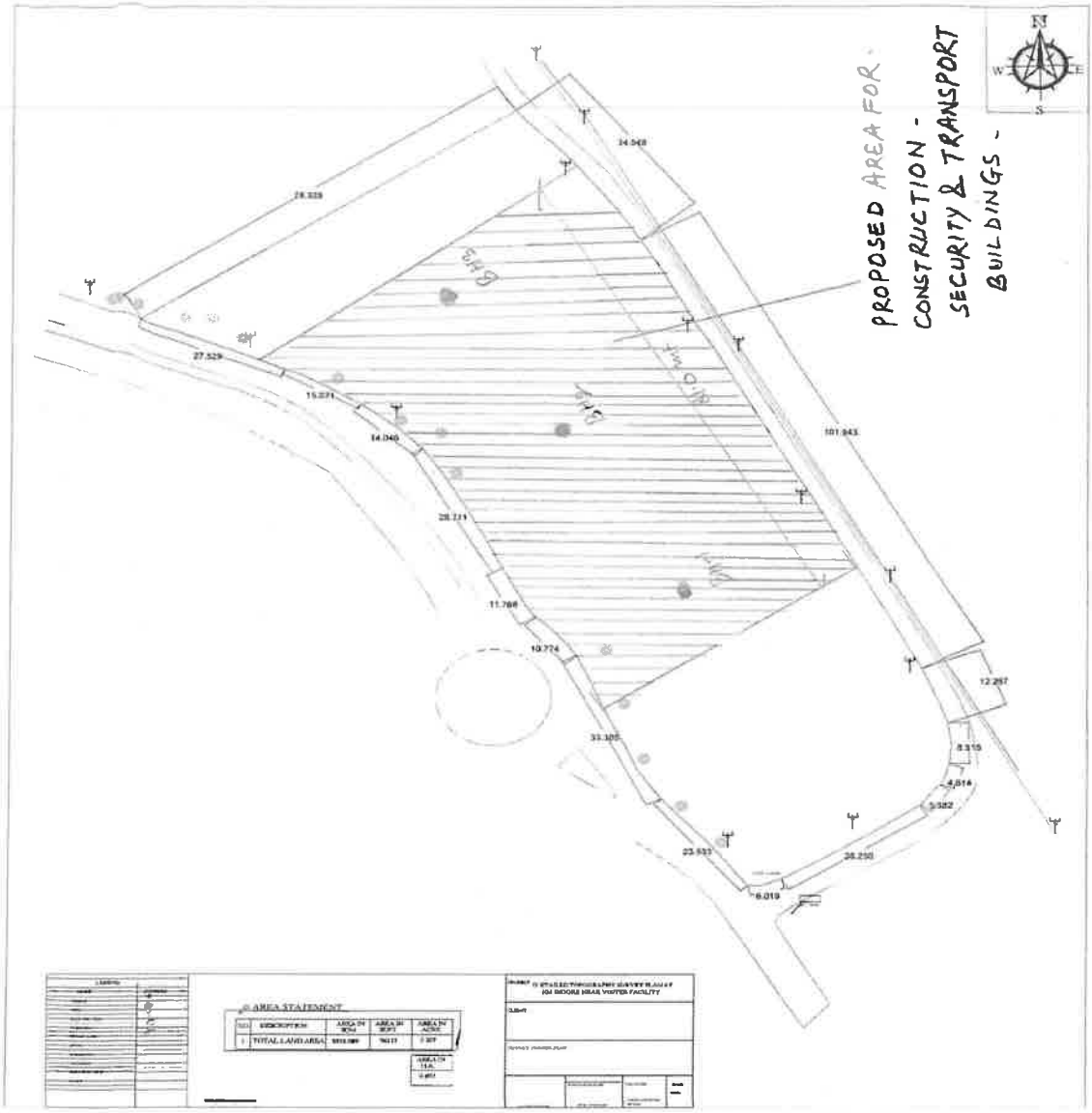
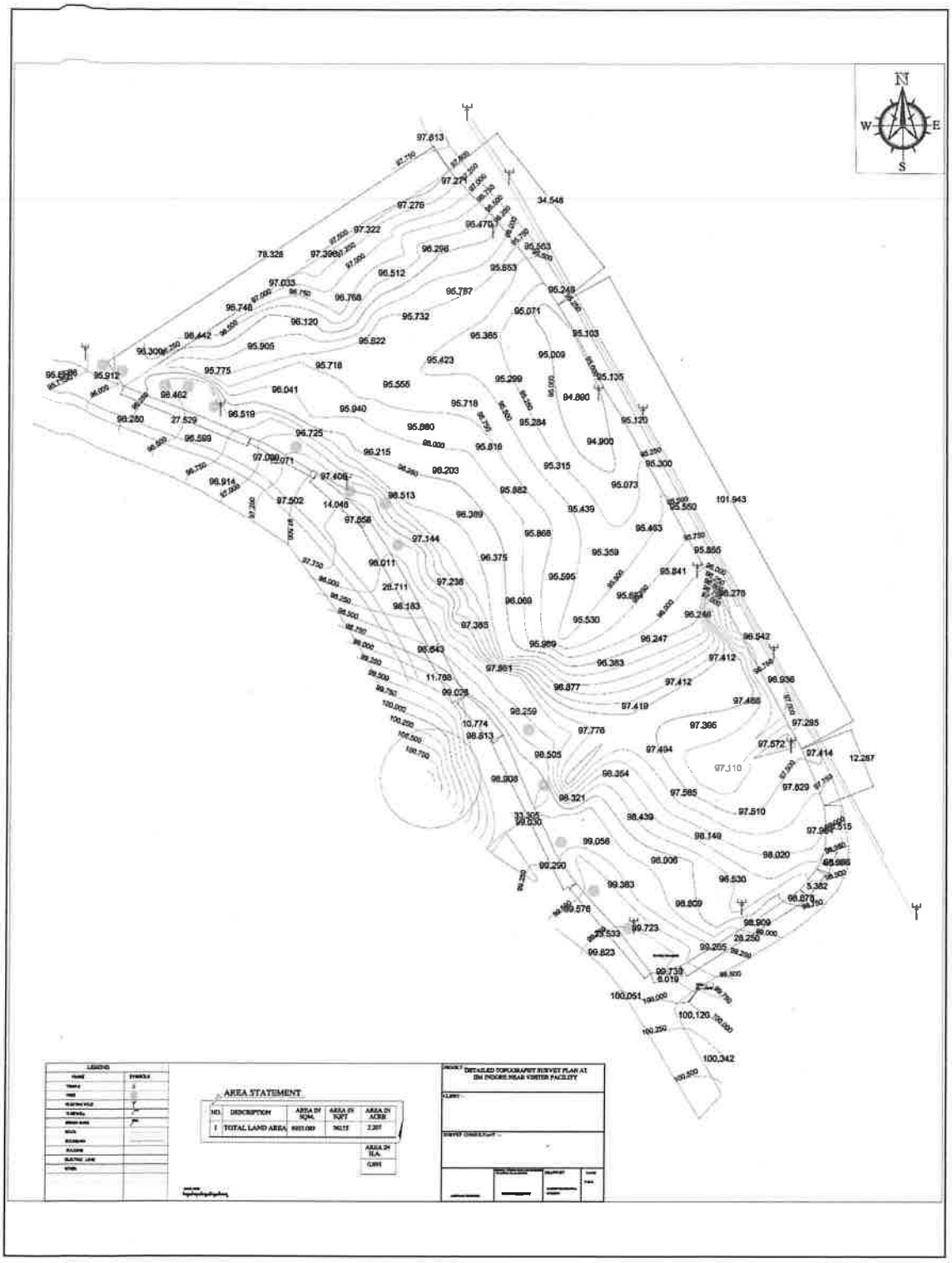
Indicative Image

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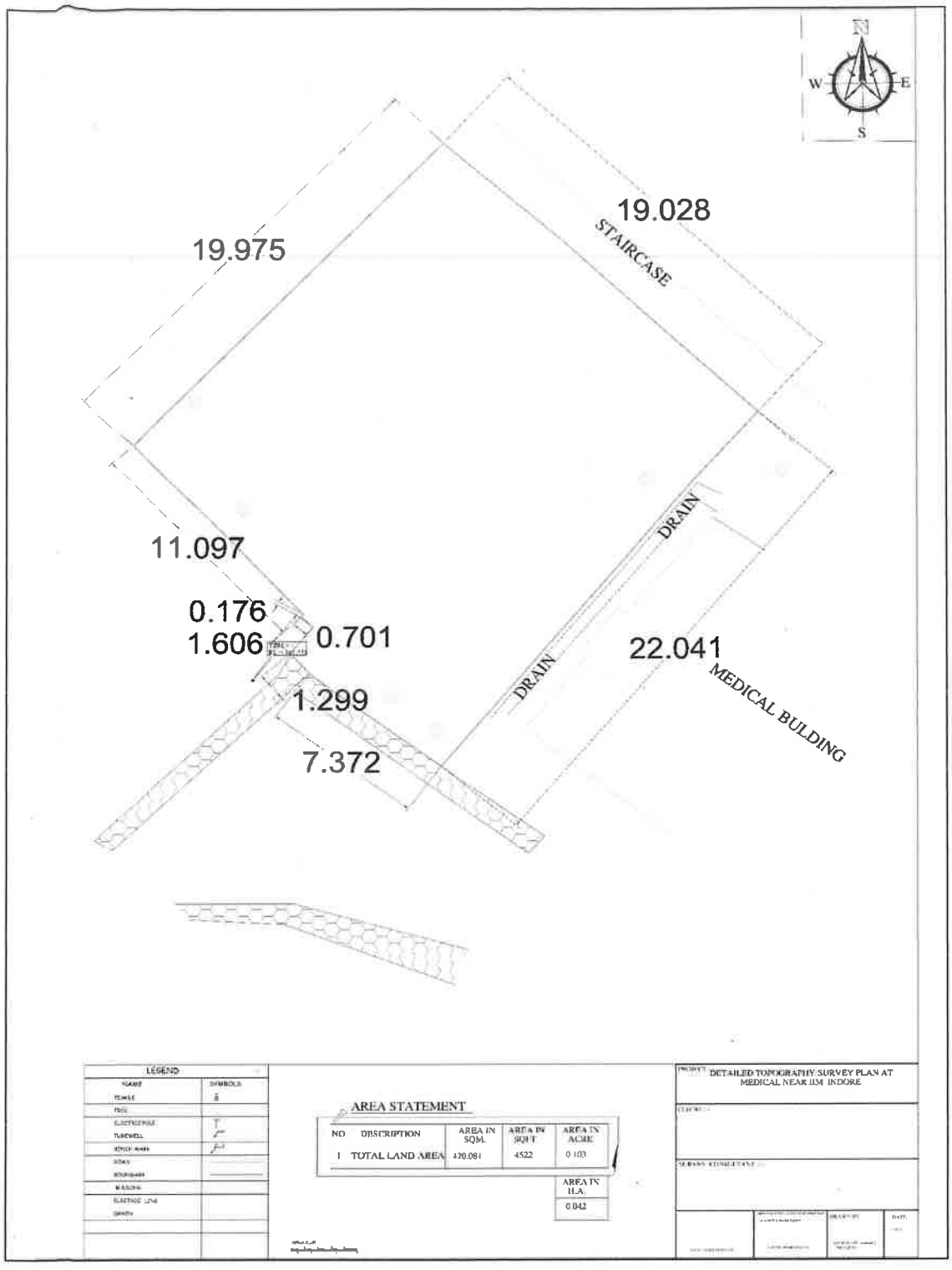
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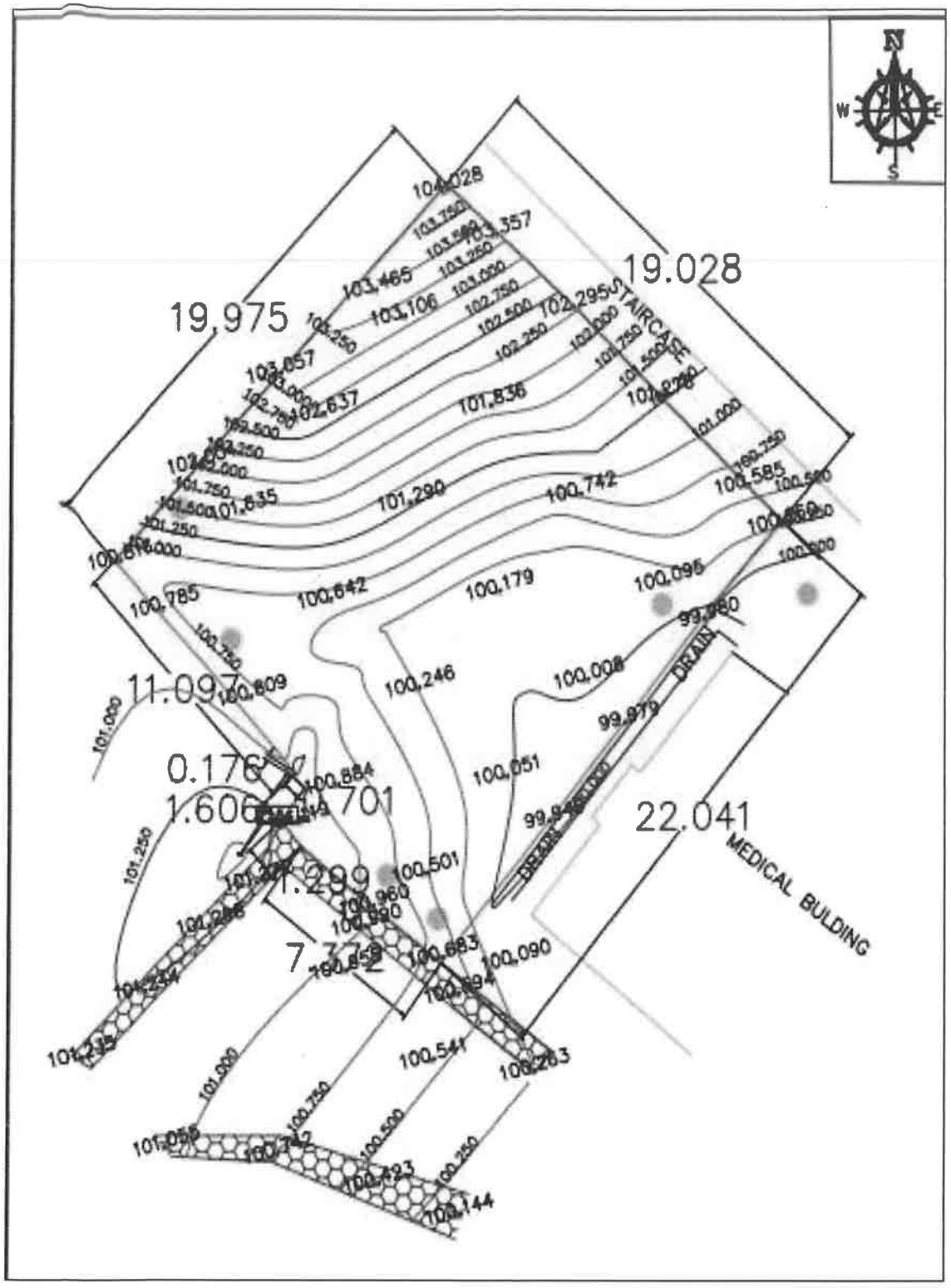
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CHAPTER 5

MILESTONE PAYMENT OF PROFESSIONAL FEES

CHAPTER 5

Milestone payment of Professional Fees

A. Professional fees for Project

Stage	Services to be recorded	Stages of Payments	Cumulative fee payments	Time Periodfor completion of the respective Services
1	After signing of agreement, Preparation of Architectural conceptual design scheme & rough estimate of cost & their submission and written approval from the IIMI.	10% of total Professional Fees	10% of total Professional Fees	1 month on Submission of Performances Guarantee of Tender Amount
2	On submitting the required Building wise / service wise scheme & its estimate & 3D PPT if required for the IIMI approval. On incorporating Client's suggestions and submitting drawings.	25% of total Professional Fees	35% of total Professional Fees	1 month (cumulativetotal 2 months)
3	Preparation of detailed Architectural design & drawings, complete take off sheet, services drawings andquantities of all services with detailed technical specification, working drawings and details required forcommencement of work at site, interior design/drawing, numeration plans & sections in order to achieve fully functional buildings / services, detailed estimate etc. . Approval to be taken from IIMI at all stages of preparation of the aforesaid. All kind of assistances not mentioned herein but required to commence the project and as demanded by IIMI.	65% of total Professional Fees	100% of total Professional Fees	1 month (cumulativetotal 3 months)

NOTE:

1. Compensation for delay will be levied **@ 0.25% of awarded cost, per day of delay of each activity as mentioned in schedule of payment , subject to the maximum of 10 % of awarded value.**
2. Professional Fees mentioned herewith means the quoted % of indicative cost

Proforma of Schedules

SCHEDULE "E"

Reference to General Conditions of contract laid down in the tender document.

Name of Work	**Providing Architectural Consultancy Service For The Work Of Designing, Layout And Detailed Estimate Of New Security Office, Medical Centre And New Transport Office At IIM Indore**
Indicative Cost Put to Tender (Excluding Goods & Service Tax)	**Rs. 7.18 Crore (Approx.)**
Bid Security	**Rs. 12,500/- (Rs. Twelve Thousand and Five Hundred Only)** by e-payment through electronic mode (NEFT/ RTGS).
Performance Guarantee	**5 (Five)** % of Awarded value
Security Deposit	**5 (Five)** % of RA Bill / Final Bill Value.

SCHEDULE "F"

General Rules & Directions

- Officer inviting tender: The Chief Officer Engineering, IIM Indore on behalf of the Director, IIM Indore

Definitions:

2(v)	Engineer-in-Charge	Chief Officer Engineering, IIM Indore
2(viii)	Accepting Authority	Director, IIM Indore
2(xii)	Department	Estate Department, IIM Indore
9(ii)	Standard CPWD contract Form GCC 2020, CPWD Form 7/ 8 as modified & corrected	Up to date.

Clause 1

i. Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance: **7 Days**

ii. Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above: **15 days**

Clause 2

i. Authority for fixing compensation under clause 2. : Director, IIM Indore

ii. Compensation for delay of work : 2% (two Percent) per month of delay to be computed on per day basis

Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the item or group of items of work for which a separate period of completion is originally given.

Clause 2A

Whether Clause 2A shall be applicable: **No.**

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start: **As per LOI cum LOC/ WO.**

Total time allowed for completion of work: 90 (Ninety) Days.

Authority to decide:

(i) Extension of time : Director, IIM Indore

(ii) Shifting of date of start in case of delay in handing over of site : Chief Officer Engineering, IIM Indore

Clause 7

Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment : **As per tender.**

Clause 10A

List of testing equipment to be provided by the contractor at site lab.- **Deleted.**

Clause 10 C - Deleted.
Clause 10 CC - Deleted

Clause 16

Competent Authority for Deciding reduced rates : Chief Officer Engineering, IIM Indore.

Clause 25

Resolution of Disputes and Disagreements

If any dispute or difference of any kind whatsoever shall arise between the parties in connection with or arising out of this Agreement or out of the breach termination or invalidity of this Agreement thereof, the parties shall resolve them by resorting to the following :

- The Party shall attempt within a period of 7 days after receipt of notice by the other party of the existence of a dispute, settle such dispute in the first instance by mutual discussions between the parties represented by the **Contractor** and Chief Officer Engineering of the institute.
- If the dispute cannot be settled by mutual discussion within 7 days the matter shall be referred to the Director IIM Indore, whose decision shall be full, final & binding on the parties.

CHAPTER 6

OTHER CONDITIONS

CHAPTER 6

OTHER CONDITIONS

1. Provide copies of all other relevant drawings, as requested by the Institute.

2. Provide all the drawings in proper electronic format suitable for use, modification, and analysis. In addition, wherever possible, provide drawings in pdf format. All drawings and documents in electronic format will be provided in hard disc as required by IIM Indore.

3. IIM Indore shall have the right to request Architect in writing to make any changes, modifications, deletions and/or additions to Architect scope of SERVICES. Architect shall consider such written requests and will work out the estimate of price and time adjustment on account of such changes, modifications, deletion and/or additions sought by IIM Indore. IIM Indore reserves the right to add works up to 10 % of the indicated area in the scope of the Architect for which no extra payment will be made. Beyond this the competent authority of IIM Indore reserves the right to decide on payment/ time extension.

4. IIM Indore shall use all drawings, designs, specifications and documents including transparencies prepared by Architect for the purposes of construction, operation and maintenance of buildings.

5. **INDEMNITY**: The Architect shall hold harmless and indemnify IIMI, against any claims or liability because of personal injury including death of any employee of the Architect and arising out of or in consequence of the performance of this CONTRACT.

6. The IIM Indore shall not be responsible for any loss or damage to property of any kind belonging to the Architect or its employees, servants or agents.

7. The tenderer shall acquaint himself with the proposed site of Contract.

8. The Architect may be allowed extension of time for completing the Contract as deemed fit by the competent authority of IIMI & the Architect shall also not be entitled to any compensation for any loss suffered by him and revision in the rates quoted by him.
   a. On account of delay in commencing the Contract by the Architect.
   b. On account of suspension of Contract or abandoned after award of Contract.

9. The Architect shall suggest use of materials bearing ISI Certification Mark unless otherwise specified or allowed in writing by the Engineer-in-Charge.

10. The rate shall be inclusive of making design, pattern and execution of Contract as per Architectural drawings, at all levels and heights.

11. The Architect shall be responsible for compliance of all statutory provisions towards ESI, PF or any other applicable laws, as the case may be, from time to time i.e. all statutory levies and taxes shall be borne by the Architect. However, GST as applicable during the pendency of the contract shall be paid extra. The applicable TDS towards GST and Income tax or any other statutory levies/taxes shall be deducted from the running account bills/final bill, as applicable at the time of payment. No claim in this regard shall be entertained.

12. The Architect is supposed to abide the minimum wages act and shall produce all records to the Engineer-in-charge or any other statutory authority as and when called for. The Engineer-in-charge does not hold any responsibility on account of any lapses in this regard.

13. No extension of time shall be granted to the Architect on account of rains or inclement weather conditions.

14. For any clarification/ doubt, the Institute may organize regular meetings with Architect. The Architect shall attend such meetings invariably as and when required on his own risk & cost and nothing extra should either be claimed from Architect nor it will be entertained by the IIMI.

15. After completion of Contract and before issuance of certificate of completion the Architect shall submit eight (4) sets to the Engineer-in-charge, all drawing drawn at appropriate scale and with 2 copies on soft copy, in Auto cad

16. **RESOULTION OF DISPUTES AND DISAGREEMENTS :** If any dispute or difference of any kind whatsoever shall arise between the parties in connection with or arising out of this Agreement or out of the breach termination or invalidity of this Agreement thereof, the parties shall resolve them by resorting to the following :

    - The Party shall attempt within a period of 7 days after receipt of notice by the other party of the existence of a dispute, settle such dispute in the first instanceby mutual discussions between the parties represented by the **Architect** and Chief Engineer of the institute.
    - If the dispute cannot be settled by mutual discussion within 7 days the matter shall be referred to the Director IIMI, whose decision shall be full, final & binding on the parties.

17. **TERMINATION:** The Engineer-in-Charge may, without prejudice to his any other right or remedy against the **Architect** in respect of any delay,non-commencement, inferior workmanship, any claim for damages and / or any other provisions of this contract or otherwise, and whether the date for completion has or has not elapsed, by notice in writing determine / repudiate the contract.

18. SUBLETTING/OUTSOURCING: The **Architect** shall not assign or sublet or outsource any activity within its scope of work.

19. **After getting award**: **Architect** shall have to execute an agreement on non-judicial stamp paper of requisite **value immediately** on furnishing the performance gurantee in the format prescribed by IIM Indore and sign on all contract documents. (cost of stamp paper to be borne by the **Architect**)

20. Integrity Agreement : **Architect** shall have to execute an Integrity Agreement also on non-judicial stamp paper of requisite value immediately on furnishing the performance gurantee in the format prescribed by IIM Indore and sign on all contract documents.
    (cost of stamp paper to be borne by the **Architect**)

21. Engineer-in-charge referred in the document implies the Chief Officer Engineering of the IIM Indore

FORMS

Form -1

LETTER OF TRANSMITTAL

[ON THE LETTER HEAD OF APPLICANT]

To,

The Director,
Indian Institute of management, Indore
Rau-Pithampur Road,
Indore- 453536

SUB: Submission of bid for the work of "Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore."

Sir,

Having examined the details given in Notice and bid document for the above work, I/we hereby submit relevant document.

1. I/we hereby certify that all the statement made and information supplied in respect of the aforesaid bid and accompanying statements are true and correct.
2. I/we furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we submit the requisite bid security & bid processing fee and authorize the Institute i.e. IIM Indore or its officials to approach the bank issuing the same to confirm the correctness thereof. I/We also authorize IIM Indore and its officials to approach individuals, employees firms and corporation to verify our competence and general reputation.
4. I/We submit the certificates/ documents in support of our suitability, technical knowledge and capability for having successfully completed the said works (as mentioned/ as attached in support of eligibility requirement)

Enclosures :

1.
2.
3.

Seal of bidder

Date of submission: Signature(s) of Bidder(s)

Sample/indicative format for Completion certificate(s) for similar works' Architect job completed during last seven years

Reference No. Date

Name & Address of the Client:

Name of the Firm:

1	Name of work with brief particulars	
2	Work Order No. & Date	
3	Agreement Amount	
4	Date of commencement of work	
5	Stipulated date of completion	
6	Actual date of completion	
7	Details of compensation levied for delay (indicate amount) if any	
8	Gross amount of the work completed and paid	
9	Name and address of the authority under whom works executed	
10	Whether the Architect employed qualified Technical Manpower during execution of contract?	
11	i) Quality of work (Indicate grading) (Outstanding/ Very Good/ Good / Satisfactory/ Poor)	
12	i) Did the Architect go for arbitration ii) If yes, total amount of claim iii) Total amount awarded	
13	Comments on the capabilities of the Architect	
	a) Technical Proficiency (Outstanding/ Very Good/ Good / Satisfactory/ Poor)	
	b) Financial soundness (Outstanding/ Very Good/ Good / Satisfactory/ Poor)	
	c) Mobilization of adequate T&P (Outstanding/ Very Good/ Good / Satisfactory/ Poor)	
	d) Mobilization of manpower (Outstanding/ Very Good/ Good / Satisfactory/ Poor)	
	e) General behavior (Outstanding/ Very Good/ Good / Satisfactory/ Poor)	

Authorised Signatory

Format of Bank details for refund of bid security

1. Name of the Beneficiary :
2. Address :
3. Telephone Number (with STD code)/ Mobile No.
4. Bank Particulars
   a. Bank Name :
   b. Branch Address:
   c. Branch Code :
   d. MICR code (enclosed copy of a cancelled cheque):
   e. 11 Digit IFS Code of the Bank
   f. Bank Account Number
   g. Bank Account Type :
5. Permanent Account Number (PAN):
6. Email Address for intimation regarding release of payments :

Seal of the Firm

Name & Signature of
Authorised Signatory

(Format of Integrity Pact)

INTEGRITY PACT

Between

Indian Institute of Management Indore hereinafter referred to as **"The Principal"**

and

..... hereinafter referred to as **"The Bidder/Architect"**

Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for ..... The principal values full compliance with all relevant laws of the land, rules, regulations economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and / or Architect(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above

Section 1 - Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles :

a. No employee of the Principal, personally or through family members, will in connection with the tender for , or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

c. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Architect (s)

(1) The Bidder(s)/ Architect (s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s)/ Architect (s) commit themselves to observe the following principles during participation in the tender process and during the contract execution.

a. The Bidder(s)/ Architect (s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

b. The Bidder(s)/ Architect (s) will not enter with other Bidders info any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.

c. The Bidder(s)/ Architect (s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/ Architect (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The Bidder(s)/ Architect (s) of foreign origin shall disclose the name and address of the Agents /representatives in India, if any Similarly the Bidder(s)/ Architect (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/ Architect (s).Further, as mentioned in the Guidelines all the payments made to the Indian agent/ representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed at (page nos. 6-7).

e. The Bidder(s)/ Architect (s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

f. Bidder(s) / Architect (s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.

(2) The Bidder(s)/ Architect (s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

(1) If the Bidder(s)/ Architect (s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Architect (s) from thetender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings". Copy of the "Guidelines on Banning of business dealings" is placed at (page nos. 8-17).

Section 4 - Compensation for Damages

(1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Architect liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

(1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

Section 6 - Equal treatment of all Bidders / Architects

(1) In case of Sub-contracting, the Principal Architect shall take the responsibility of the adoption of Integrity Pact by the Sub- Architect.

(2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Architects.

(3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidder(s) / Architects

If the Principal obtains knowledge of conduct of a Bidder, Architect or of an employee or a representative or an associate of a Bidder, Architect or Sub Architect which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 - Independent External Monitor

(1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

(2) The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders/ Architects as confidential. He/ she reports to the Director, IIM.

(3) The Bidder(s)/ Architect(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Architect. The Architect will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub- Architect s.

(4) The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Architect (s)/ Sub- Architect (s) with confidentiality. The Monitor has also signed declarations on Non-Disclosure of Confidential Information' and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Director, IIM INDORE and recuse himself / herself from that case.

(5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Architect. The parties offer to the Monitor the option to participate in such meetings.

(6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

(7) The Monitor will submit a written report to the Director, IIM INDORE within 8 to 10 weeks from the date of reference or intimation to him by the Principal

and, should the occasion arise, submit proposals for correcting problematic situations.

(8) If the Monitor has reported to the Director IIM INDORE, a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Director IIM INDORE has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, theMonitor may also transmit this information directly to the Central Vigilance Commissioner.

(9) The word **'Monitor'** would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for theArchitect 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Director, IIM INDORE.

Section 10 - Other provisions

(1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.

(2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

(3) If the Architect is a partnership, this agreement must be signed by all partners.

(4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(5) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.

(6) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

(For &, On behalf of the Principal) (For &, On behalf of Bidder/ Architect)

(Office Seal) (Office Seal)

Place .....
Date .....

Witness 1:
(Name & Address) _____

_____

_____

_____

Witness 2:
(Name & Address) _____

_____

_____

_____

Format of Bank Guarantee

(Format of Bank Guarantee)

Bank Guarantee for Performance Security

(On letter head of the Owner with adhesive stamp / non-judicial stamp paper of Rs. 500/- or appropriate value at the time of issue of Bank Guarantee)

THIS DEED OF GUARANTEE made on_____day of_____2025, between [Name of Bank]., having Registered Office at [Address], (hereinafter called the "Bank" which expression shall unless repugnant to the context and meaning thereof include its successors) in favor of [Name of Owner] having its office at [Address] and Registered Office at [Address]. (hereinafter called "Owner" which expression shall unless repugnant to the context and meaning thereof include its successors and assigns).

WHEREAS_____has issued a Letter of Acceptance / Work Order dated _____ to_____having its Corporate office at_____ _____(hereinafter called the "Architect") which constitute a binding Contract (hereinafter called "Contract Agreement") for carrying out the "(Name of Work_____ _____)" based upon the Tender submitted by the Architect and agreed between Client and Architect and subject to the terms therein contained . The work to be carried out by Architect shall be supervised and implemented by M/s_____. (hereinafter called "Architect/Bidder")

AND WHEREAS in accordance with the terms and conditions of the contract agreement, the Architect has agreed to furnish a Bank Guarantee to Owner in the form of acceptable to _____for a sum of Rs._____(Rupees_____Only) toensure timely and satisfactory performance by the Architect of its obligation under the Contract Agreement.

AND WHEREAS the Bank has at the request of the Architect agreed to furnish this irrevocable and unconditional guarantee in favor of Owner to secure performance by the Architect of its obligations under the Contract Agreement on the terms and conditions herein contained.

NOW THIS DEED WITHNESSTH AS FOLLOWS:

i) The Bank hereby unconditionally and irrevocably guarantees the due and punctual performance and observance of and compliance by the Architect of the covenants, agreements, conditions and provisions expressed or implied on the part of the Architect to be performed observed or complied with under the Contract Agreement in accordance with the terms thereof and in the event of any non-performance and non-compliance of the same for any reason, the Bank shall absolutely irrevocably and unconditionally without any demur right of set off or counter claim, forthwith upon written demand by Owner and without demur or protest and without reference to the Architect pay to Owner a sum not exceeding Rs._____ (Rupees

_____ only). A demand so made by_____shall be final and binding on the Bank.

ii) The Bank's liability under this Guarantee is restricted to Rs._____(Rupees _____Lacs_____Thousand_____only).

iii) The decision of Owner for the time being in force, or at any time thereafter as to the non- performance, non-observance and non-compliance by the Architect of the covenants, agreements, conditions and provisions, expressed or implied, on the part of the Architect, to be observed performed or complied with under the Contract Agreement shall be final, conclusive and binding upon the Bank and shall not in any circumstances be questioned by the Bank, under what so ever circumstances.

iv) Any demand for payment under this Guarantee shall be made on the Bank by Owner in writing at [Bank Address] and shall be deemed to have been sufficiently made by Owner if the writing containing the demand is sent to the Bank by registered post to the address as aforesaid or sent to the Bank by hand delivery at such address and written acknowledgement obtained to such delivery.

v) The guarantee obligations of the Bank hereunder shall continue in force and effect and be binding on the Bank in accordance with its terms upto_____or until the due performance, observance and compliance by the Architect of all the covenants, agreements, conditions and provisions, expressed or implied, on the part of the Architect to be observed, performed or complied with under the Contract Agreement, the completion of the Defects Liability Period and issue of the Certificate of Final Completion by Owner in accordance with the Contract Agreement whichever is later.

vi) As between the Bank and Owner (but without affecting the Architects' obligations) the Bank shall be liable under this Guarantee as if it were the sole principal debtor. The Bank's liability hereunder shall not be discharged nor shall its liability be affected by:

a. any time, indulgence, waiver or consent at any time given by Owner to the Architect.

b. Any amendment to the Contract Agreement,

c. The making or the absence of any demand by Owner on the Architect or any other person for payment.

d. The enforcement or absence of enforcement of the Contract Agreement or of any security or other defect in any provision of the Contract Agreement or of any of the Architects obligations there under;

e. The dissolution, amalgamation, reconstruction or reorganization or appointment of any Administrative Receiver of the Architect.

vii) The Guarantee herein contained shall not be determined or in any way prejudiced or affected by any change in the constitution of the Bank/ Owner or by any merger, or

amalgamation or reconstruction of the Bank / Owner but shall be enforceable against themerged, amalgamated or reconstruction body.

viii) The Bank hereby expressly and irrevocably waives all claims of waiver, release, surrender or compromise and all defenses, set offs, counter claims recoupments, reductions, limitations and impairments, whatsoever.

ix) Owner shall be at liberty to vary and alter or modify any of the terms and conditions of the Contract Agreement including without limitation to extend from time to time the time for the performance of the Contract Agreement by the Architect or to postpone from time totime any of the powers exercisable by_____against the Architect, to forbear or toenforce any of the terms and conditions of the Contract Agreement, without in any manner affecting this Guarantee and without notice to or assent of the Bank.

x) The Bank waives any right to require/proceeding first against the Architect or the realization first of any other security or other guarantee, if any.

xi) The Bank agrees and confirms that its obligation to make payment to Owner on demand hereunder and discharge of such obligation shall not be delayed, exercised or avoided by reason of any act or omission on the part of Owner.

xii) The bank declares and confirms that the Bank has taken all necessary corporate action to authorize the execution delivery and performance of this Guarantee in accordance with the terms hereof and that the Bank has full power to enter into and perform and discharge its obligations under taken hereunder and that this Guarantee constitutes legal, valid and binding obligation of the Bank, enforceable in accordance with its terms and anydefects therein or in its execution shall not be a plea for non-payment or performance of its obligation.

xiii) This guarantee shall be Governed by and construed in all respects according to the laws of India and shall be subject to the jurisdiction of the courts in Mumbai.

xiv) Any forbearance or indulgence on the part of Owner in the enforcement of the covenants, agreements, conditions and provisions, expressed or implied, on the part of the Architect to be observed, performed or complied with by the Architect under the contract agreement shall in no way relieve the Bank of its liability under the Guarantee.

xv) Terms and expression defined in the contract agreement and used herein shall have the meanings assigned to them therein save and except where the context otherwise require.

xvi) Notwithstanding anything contained hereinabove;

a. Our liability under this bank guarantee shall not exceed Rs._____(Rupee _____)

b. This bank guarantee shall be valid upto_____or and

c. It is a condition to our liability for payment of the guaranteed amount or partany thereof arising under this Bank guarantee that we receive a valid written claim ordemand for payment under this bank guarantee on or before_____or as provided in clause 5 whichever is later failing which our liability under this bank guarantee will automatically cease.

IN WITNESS WHEREOF THE BANK HAS SET ITS HAND AND SEAL THE DAY AND YEAR FIRSTABOVE WRITTEN.

SIGNED for and behalf)
Of the Bank by it's duly authorized)
Representative Mr.)
In the presence of)

Financial Bid

For

"Providing Architectural Consultancy Service for the work of Designing, Layout and Detailed estimate of new Security office, Medical centre and new Transport office at IIM Indore & proof checking of foundation of Medical centre for two additional floor."

As per the Financial Bid available on the following link of e-procurement website
https://eprocure.gov.in/eprocure/app

11/3/15

Tender Inviting Authority