

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Guwahati - 781 039, Assam

Phone: (0361) 2582061, 2692771 Fax : (0361) 2692771, 2690762



TENDER DOCUMENT

NIT no : IITG/IPM/NIT/FY22-23/16 dated: 29-07-2022

NAME OF WORK

Repairing of sub road to the entry of Umium and Barak Hostel at IITG campus



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NOTICE INVITING TENDER

Tender No- IITG/IPM/NIT/FY22-23/16 dated: 29-07-2022

Sealed tenders are invited in single bid from the registered and experienced contractors for the following work. Tenders will be received upto 2:00 p.m. on 16-08-2022 and will be opened on the same day at 3.00 p.m. in presence of intending tenderers or their authorized representatives. In case, the day of submission of the tender happens to be a holiday on account of Govt. notification and tender cannot be received or opened; the tender shall be received or opened on the next working day at 3.00 p.m. for which no separate communications will be made. Other terms & conditions are enclosed herewith.

Name of works	Repairing of sub road to the entry of Umium and Barak Hostel at IITG campus.
Web Site for downloading tender	https://www.iitg.ac.in/iitg_tenders_all
Estimated Cost	₹ 4,98,428.00
Cost of tender Document	₹ 1,000.00 (Through Demand draft/ Banker's cheque in favour of 'IIT Guwahati' payable at 'Guwahati')
Earnest Money	₹ 9,970.00 (Rupees nine thousand nine hundred seventy only) (Through Demand draft/ Banker's cheque in favour of 'IIT Guwahati' payable at 'Guwahati')
Time of completion	30 (Thirty) days from the date of handing over of site
Critical dates	
Tender document download/ sale start	02-09-2022 to 15-09-2022 Up to 13:30 Hrs
Last Date & time for Submission	Up to 14.00 Hrs. on 15-09-2022
Date & time for tender Opening	At 15.30 Hrs. on 15-09-2022

Qualifying criteria for participation in the Tender:

- (1) The contractor/ firm should have valid Registration in CPWD, BSNL, APWD, Railways, MES, Central PSUs & other Govt. / Semi Govt. Dept. / Govt. Autonomous Body.
- (2) Minimum Annual Turnover from Construction works during last 3 consecutive years should not be less than ₹ 1.50 lakh during the immediate last three consecutive years.
- (3) Experience in Work : (i) Shall have experience in execution of road works (involving Construction and repairing work of bituminous road works completed satisfactorily during the last seven years as follows:
(a) One work of value not less than ₹ 3.99 lakh against a single work order OR (b) two works of each value not less than ₹ 2.99 lakh each against two separate work order OR (c) three works of each value not less than ₹ 1.99 lakh each against three separate work orders in Govt./ Semi Govt. department / Autonomous body during last seven years.

- (4) PAN no. and GST Registration.
- (5) Tender document shall be downloaded from IIT website (https://www.iitg.ac.in/iitg_tenders_all) only from 02-09-2022 to 15-09-2022 Up to 13:30 Hrs.
- (6) Submitted tender paper (duly signed on all pages) must be accompanied by the attested copies of the qualifying documents as stated above along with (a) Copy of PAN card (b) GST Registration certificate., (c) **DD/BC of ₹ 1000.00 (Rupees one thousand only) as a cost of tender paper** (non-refundable) in favour of "IIT Guwahati" payable at 'Guwahati' (d) **DD/BC of ₹ 9,970.00 (Rupees nine thousand nine hundred seventy only) as a EMD** in favour of "IIT Guwahati" payable at 'Guwahati' should be submitted along with the Tender document. **Price bid shall be submitted with separate sealed envelope and marked as "Price-Bid"** **This price bid envelope along with all other necessary documents should be sealed in another envelope which should be submitted in tender box. Over that envelope details of name of work, NIT no and contractor name should be properly written.**
- (7) Any further clarification including corrigendum, addendum, amendments, time extension etc. to the above tender will be posted in the website only. Bidders should therefore regularly visit the website https://www.iitg.ac.in/iitg_tenders_all
- (8) IIT Guwahati does not bind itself to accept the lowest tender and reserves itself the right to reject any or all the tenders received without assigning any reason thereof.

**HoS-Maintenance
IPM Section**

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Submission of Tender

From :.....

To

HoS-Maintenance, IPM Section
Indian Institute of Technology Guwahati, GUWAHATI - 781 039

1. I/We hereby tender for execution of the work "**Repairing of sub road to the entry of Umium and Barak Hostel at IITG campus**" as per tender document within the time schedule mentioned therein and accepted by me/us, at the rates quoted by me/us for the whole work in accordance with terms and conditions, specifications, drawings, as detailed in the tender document. It has been explained to me/ us that the time stipulated for job and completion of works in all respects and in different stages mentioned in the "Time schedule" of completion of work and signed and accepted by me/us is the essence of the Contract.
2. It has been explained to me/ us that the time stipulated for job and completion of works in all respects and in different stages mentioned in the "Time schedule" of completion of work and signed and accepted by me/us is the essence of the Contract. I/We agree that in the case of failure on my/ our part to strictly observe the time of completion mentioned for work or any of them and to the final completion of works in all respects according to the schedule set out in the tender, I/We shall pay compensation to the Owners as per provision and stipulations contained in the relevant clause of Contract and I/We agree to the recovery being made as specified therein. In exceptional circumstances extension of time which shall always be in writing may, however, be granted by the Engineer-in-Charge at his entire discretion for some items of work, and I/We agree that such extension of time will not be counted for the extension of completion dates stipulated for work and for the final completion of works as stipulated in the said "Time Schedule" of Completion of work.
3. I/We agree and accept the terms and conditions laid down in the memorandum below in this respect.

MEMORANDUM

- | | |
|---------------------------------------|---|
| (a) General description of work | Repairing of sub road to the entry of Umium and Barak Hostel at IITG campus. |
| (b) Earnest Money | Earnest money of ₹ 9,970.00 shall be deposited along with the tender in the form of Demand draft/ Banker's cheque or through online i.e. Debit Card/ Credit Card/ Net Banking/ NEFT/RTGS in favour of 'IIT Guwahati' payable at 'Guwahati |
| (c) Performance guarantee | 3% (Three percent) of the tendered amount. |
| (d) Time allowed for starting of work | : 30 (Thirty) days from the date of handing over of site. |

1. Should this tender be accepted I /We hereby agree to abide by and fulfill all terms and conditions referred to above and in default thereof, to forfeit and pay to the Owner or its

successors or its authorized nominees such sums of money as are stipulated in conditions contained in Notice Inviting Tender and other tender documents.

2. I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in IIT Guwahati in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Performance Guarantee.
3. If I/We fail to commence the work specified in the memorandum herein above, or I/We fail to deposit the amount of Performance guarantee specified in the Memorandum, I/We agree that the said Owner and its successors without prejudice to any other right or remedy be at liberty to cancel the notice of acceptance of tender if I/We fail to deposit the Performance guarantee as aforesaid or to execute an agreement or to start work as stipulated in the tender documents.
4. I/we hereby certify that all the statement made and information supplied are true and correct.
5. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.

CERTIFICATE:

It is certified that the information given in the tender are correct. It is also certified that I/we shall be liable to be debarred, disqualified in case any information furnished by me/us found to be incorrect.

Date.....day of.....2022

Witness:

Name in Block Letters:

Address:

Signature of Tenderer(s), with the seal of Firm

**PROFORMA FOR ACKNOWLEDGEMENT LETTER OF BIDDING DOCUMENT
(TO BE SUBMITTED IN BIDDER'S OWN LETTER HEAD)**

Ref no.

Date:

To

The HoS (Maintenance), IPM Section
IIT Guwahati
Guwahati-781039, Assam

Sub: Repairing of sub road to the entry of Umium and Barak Hostel at IITG campus.

Ref: IITG/IPM/NIT/FY22-23/16 dated: 29-07-2022

Dear Sir,

We hereby acknowledge receipt of a complete set of bidding document along with all enclosures for the subject work for preparation and submission of the Bid.

We undertake that the contents of the above Bidding document shall be kept confidential, further that specifications and documents shall not be transferred, and that the said documents are to be used only for the purpose for which they are intended.

(A) We intend to bid as requested for the subject works and furnish following details with respect to our quoting office:

- (i) POSTAL ADDRESS :
- (ii) TELEPHONE NUMBER :
- (iii) MOBILE NO. :
- (iv) TELEFAX NUMBER :
- (v) CONTACT PERSON :
- (vi) DESIGNATION :
- (vii) EMAIL ADDRESS :
- (viii) REGISTERED OFFICE :

BIDDER'S NAME :

SIGNATURE:

NAME :

DESIGNATION :

DATE :

**INDIAN INSTITUTE OF TECHNOLOGY
GUWAHATI, ASSAM**

Special Terms & Conditions



NAME OF THE WORK

Repairing of sub road to the entry of Umium and Barak Hostel at
IITG campus.

Special Terms & Conditions

1. The scope of this contract shall include scarifying existing road, repairing of potholes of bituminous road, application of a layer of bituminous concrete including tack coat etc as per specification. The Contractor shall provide all necessary materials, equipment, labour etc. for the execution and maintenance of the work till completion unless otherwise mentioned in this tender document. All materials required for the work shall be as per technical specifications and approved by Engineer-in-Charge prior to procurement and use.
2. Rates shall be quoted in the Bill of Quantity (BOQ) furnished in figures and in words. If there is any variation between the rates quoted in figures and rates quoted in words, the rates quoted in words shall be considered.
3. The rates shall be firm up to the completion of work. No price escalation will be paid on any account.
4. The work shall be completed within **30 (Thirty) days** from the date of handing over of site.
5. The rate shall be inclusive of all taxes including GST @ 18% (eighteen). All other taxes including forest Royalty as applicable to the work as per state/central government shall be deducted from the bills. Loading, unloading and transportation etc. of all the materials to work site at IITG campus, Guwahati-39 shall be inclusive of quoted rate.
6. All the pages of the tender document shall be signed and dated at the lower right hand corner by the tenderer. If the tender is signed by a person holding power of attorney, power of attorney authorizing him to sign on behalf of the tenderer should be submitted along with the tender.
7. The documents submitted along with the application for tender in respect of Experience, registration will be verified by the Institute with respect to that stated in the NIT for qualifying for the tender. If after verification any such data/ information are not found true or has attempted to conceal any unfavorable data/ information, his/her tender shall be summarily rejected.
8. The owner reserves the right to take inputs regarding performance of a bidder on any similar work (on-going or completed) from a client whether disclosed in the tender or not. If any such report from the client is found to be unsatisfactory, the tender is liable to be rejected.
9. Any tender submitted without the qualifying documents mentioned in the relevant clause of NIT, it shall be considered as incomplete tender and the tender will be rejected for which no communication will be made.
10. The contractor shall arrange all the plants, equipment, machineries etc. required for the works for which no extra charges will be paid.
11. The Contractor shall provide all necessary materials, equipment, labour etc. for the execution and maintenance of the work till completion unless otherwise mentioned in this tender document. All materials required for the work shall be as per technical specifications and approved by Engineer-in-Charge prior to procurement and use.
12. The contractor will arrange for water and electricity at his own. However, the Institute may provide electricity on the request of the contractor on payment basis under the terms and conditions fixed by the institute.
13. Care shall be taken by the contractor to avoid damage to any part of the building or its finishing. He/they shall be responsible for repairing all damages and resorting the same to their original finish at his own cost. He / they shall also remove at his own cost all unwanted wastage and materials arising out of his work from the site.

14. Any abnormal rate quoted in the tender will summarily be rejected for which no communication will be made.
15. Earnest money of ₹ **9,970.00** shall be deposited in the form of deposited in the form of **Demand draft/ Banker's cheque** or through online i.e. Debit Card/ Credit Card/ Net Banking/ NEFT/RTGS in favour of 'IIT Guwahati' payable at 'Guwahati
16. **Payment of Bills:** The successful bidder if desire may submit their Running Account Bill as per progress of work and actual execution. The contractor will submit RA Bill for release of payment subject to his satisfaction in progress of work.
- After successful completion of work, as per specification and requirement, the contractor must submit their Final Bill including detail measurement along with Forest Department or other department clearance if necessary within one month from the date of completion of work. On submission, the site engineer will prepare the bill subject to his satisfaction and put up for payment within fifteen days.
17. **Performance Guarantee: Performance Bank Guarantee (PBG):**
- i) The successful bidder shall submit an irrevocable Performance Guarantee of 3% (Three percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within 15 days from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in- Charge on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to IITG as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to IITG to make good the deficit.
- ii) The Performance Guarantee shall be valid up to the stipulated date of completion plus minimum 6 months beyond that. To cover the defect liability period of 6 months of the work, the Performance Guarantee shall be retained as Security Deposit. The same shall be returned after expiry of the defect liability period without any interest.
- iii) The Engineer-in-Charge shall not make any claim under the performance guarantee except for amounts to which IITG is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
- a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
- b) Failure by the contractor to pay IITG any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
- iv) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of IITG.

Clause no.17 (i) to (iv) shall supersede clause no. 19.1 & 19.2 of the General Conditions of Contract. The term Initial Security Deposit/Security deposit used elsewhere in the tender document shall be read as Performance Guarantee.

18. All legal disputes will be subjected to jurisdiction of Gauhati High Court only.
19. If the lowest bid is below 10% of the estimate, additional initial security deposit of value by which the quote is below 10% of the estimate will have to be submitted by the bidder along with Performance Guarantee within 15 days from the date of issue of Letter of Intent offering the work. The additional security deposit shall be refunded immediately after completion of the work. In case the lowest bidder is not able to complete the work, the performance guarantee and the additional security deposit will be forfeited and the contractor will be debarred for 2 years from participating in the tenders floated by the Institute after issuing a show case notice.
20. The performance guarantee and additional security deposit will be in the form as specified in the tender. In case the lowest bidder fails to submit the performance guarantee and additional security deposit within the stipulated time, the offer will be cancelled. In such case, the work will then be offered to the next lowest bidder (L2) at L2's rate and so on.
21. Lowest quotes above 10% of the estimated cost will not be accepted in any case and fresh tender will be invited.
22. All other terms & conditions shall be as per provision of General Conditions of Contract followed by the institute.

HoS (M), IPM Section

23.1 Other Responsibility of the contractor

23.1.1 The contractor shall be responsible to maintain proper discipline of the operating staff in the works to discharge of their duties. However, the institute shall have the right to ask any of the operating staff to leave the premises if in the opinion of the institute the conduct / behavior and activities of the individual concerned is subversive and not in the interest of the institute. Each worker will be notified on behalf of contractor about his misconduct / misbehavior well in advance to improve the same and a maximum of three reminders will be given in this issue. After that if it is not improved at all, he will not be permitted to do any work inside the campus and his entry in the campus for future will be restricted

23.1.2 Any other piece of work not specifically mentioned above but essential for the normal maintenance of the works are also covered in the scope of contract.

23.1.3 Contractor shall abide by all the necessary requirement of labour laws regulation while engaging operating staff in the work. Holiday to the labourers will be given as per labour laws.

23.1.4 Non- Compliance of work: In the event of failure of the contractor to comply with the complaint, the Institute shall be at liberty to engage other agency and get the work done and expenditure so incurred shall be recovered double from the next bill payable to the contractor. Noncompliance to any of the complaints and not done satisfactorily would be recorded and recurrence of such incidents may lead to cancellation of the work order.

23.1.5 Accidents: Any accident due to negligence on the part of the contractor in following of safety procedures is purely at the responsibility of Contractor. IITG is not responsible for any such accidents/damages/death. Safety of all the staff of the Contractor is the sole responsibility of the Contractor. Contractor shall submit staff pattern & general scheme to carry out the above work along with the bid.

23.2 Scope of supply

23.2.1 Owner's scope of supply:

23.2.1.1 No store materials, tools and plants shall be issued by the owner.

23.2.2 Contractor's scope of supply:

23.2.2.1 All materials, equipment, consumable, testing appliances, tools and tackles necessary for completing the work shall be procured and engaged by the contractor at his own cost unless otherwise directed.

23.2.2.2 Land for borrow areas for procuring earth shall be arranged by the Contractor. All payments towards cost of forest royalties for land, taxes, cess, octroi, right of way etc. shall be paid by the contractor.

23.2.2.3 The Institute will not be held responsible for loss of any materials, tools, tackles, testing equipment of the contractor from the campus. The contractor shall be responsible for safe custody of all such items.

23.2.3 Outworker's scope of supply:

a) All materials, equipment, consumable, testing appliances, tools and tackles necessary for completing the work shall be procured and engaged by the contractor at his own cost unless otherwise directed.

b) Land for borrow areas for procuring earth shall be arranged by the Contractor. All payments towards cost of forest royalties for land, taxes, cess, octroi, right of way etc. shall be paid by the contractor.

23.3 Quality assurance & quality control

The tenderer is required to carry out various tests of his own for quality assurance as desired by the Institute during the performance of the work as per IS codes. Such test reports should be immediately available to the controlling engineer before further proceeding to the work.

23.4 Test and inspection of work:

All tools, tackles and equipments for the tests and inspection of works shall be provided by the contractor. If any test(s) is required to be done through other agencies the test(s) shall be done at the cost of the contractor. As per General Conditions of Contract of this Institute.

23.5 Site clearing

The contractor should clean the site free from all obstructions. No payment shall be made against this. And no extra time on this account shall be considered.

23.6 Approach Road

The contractor should take care of all necessary measures to ensure safety of the plying vehicles during maintenance of roads at any location. It shall be the contractor's responsibility to repair any damages caused due his negligence.

FORM "A"

FINANCIAL INFORMATION

Financial Analysis – Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Years

Year	2017-18	2018-19	2019-20	2020-21
Gross Annual turnover on construction works ` in lakhs				
Profit / Loss.				

* The bidder should give information strictly in above format.

- I Financial arrangements for carrying out the proposed work.
- II. Solvency Certificate from Bankers of the bidder in the prescribed Form "B".

Signature of Chartered Accountant with Seal

Signature of Bidder(s).

FORM "B"

FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s./Sh
.....having marginally noted address,
.....
.....a customer
of our bank are/is respectable and can be treated as good for any engagement
upto a limit of
Rs.....(Rupees.....
.....
.....). This certificate is issued
without any guarantee or responsibility on the bank or any of the officers.

(Signature) For the Bank

NOTE

- (1) Bankers certificates should be on letter head of the Bank, addressed to tendering authority.
- (2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.
- (3) Solvency certificate should not be more than 6 months old.

FORM 'C'
DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED
DURING THE
LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF
SUBMISSION OF TENDERS

S. No	Name of work/project and location	Owner of sponsoring organization	Cost of work	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/arbitration cases pending /in progress with	Name and address /telephone number of officer	Whether the work was done on back to back basis
1	2	3	4	5	6	7	8	9	10

* Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Bidder(s)

FORM 'D'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS "C"

1. Name of work/project & location
2. Agreement no.
3. Estimated cost
4. (i) Tendered cost
(ii) Value of work done
5. Date of start
6. Date of completion
 - (i) Stipulated date of completion
 - (ii) Actual date of completion
7. (a) Whether case of levy of compensation for delay has been decided or not
Yes/No

(b) If decided, amount of compensation levied for delayed completion, if any
8. Performance Report

(1)	Quality of work	Outstanding/Very Good/Good/Poor
(2)	Financial soundness	Outstanding/Very Good/Good/Poor
(3)	Technical Proficiency	Outstanding/Very Good/Good/Poor
(4)	Resourcefulness	Outstanding/Very Good/Good/Poor
(5)	General Behaviour	Outstanding/Very Good/Good/Poor

Dated:

Executive Engineer or Equivalent

Note: If Name of Work is not clearly defining scope of work as specified in the definition of similar work, bidders are advised to upload copy of Agreement/ final bill or any other relevant document in support of their proposed completed work conforming to the definition of similar work.

FORM "E"
STRUCTURE & ORGANISATION

1. Name & address of the bidder
2. Telephone no./Telex no./Fax no.
3. Legal status of the bidder (attach copies of original document defining the legal status)
 - (a) An Individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited company or Corporation
4. Particulars of registration with various Government Bodies (attach attested photocopy)

Organisation/Place of registration
Registration No.

- 1.
- 2.
- 3.
5. Names and titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization
6. Has the bidder, or any constituent partner in case of partnership firm Limited Company/Joint Venture, ever been convicted by the court of law? If so, give details.
8. In which field of Civil Engineering construction the bidder has specialization and interest?
9. Any other information considered necessary but not included above.

Signature of Bidder(s)

FORM “F”

Affidavit

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in IIT Guwahati in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Performance Guarantee.

Signature of Bidder(s) or an
authorized Officer of the firm with
stamp

**FORM
“G”**

Undertaking regarding obtaining GST registration Certificate
of The State, in which work is to be taken up

If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by IITG, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by IITG or GST department in this regard.

Signature of Bidder(s) or an authorized
Officer of the firm with stamp

FORM "H"

Compliance to requirement of tender documents:

We confirm that our tender complies with the total techno-commercial requirements of bidding document without any deviation.

Contractor

Signature of Company/

FORM "J"

TENDER VALIDITY

Tender shall remain valid for acceptance for a period of 120 (One hundred twenty) days from the date of opening of the tender. The tenderer shall not be entitled during the said period to revoke or cancel his tender or to vary the tender given or any term thereof. In case of tenderer revoking or cancelling his tender or varying any term in regard thereof, the OWNER shall reject the tender. Tender shall be revalidated for extended period as required by Owner in writing.

Contractor

Signature of Company/

EVALUATION CRITERIA TO QUALIFY FOR OPENING OF PRICE BID

TENDER TECHNICAL QUALIFICATION CRITERIA

Sl. No.	Qualifying Criteria	DOCUMENTS REQUIRED FROM THE BIDDER
1	Total tender document including addenda, corrigendum etc.	Complete set of the tender document downloaded duly filled in and signed by the tenderer as prescribed in different clauses of the tender document with all addenda/corrigenda issued duly signed.
2	Certificate of registration with Govt. / Semi Govt. Dept. / Autonomous Body.	The contractor/ firm should have valid Registration in CPWD, BSNL, APWD, Railways, MES, Central PSUs & other Govt. / Semi Govt. Dept. / Govt. Autonomous Body. Valid registration certificate
3	Cost of tender paper of ₹ 1,000.00	Shall be deposited along with the tender in the form of Demand draft/ Banker's cheque in favour of 'IIT Guwahati' payable at 'Guwahati'
4	Work experience	Satisfactory completion certificates supported by respective Work order / detailed BOQ/ final bill etc. for works executed in Govt./ Semi Govt. Department/ Govt. Autonomous Body.
	(i) Shall have experience in execution of road works (involving Construction and repairing work of bituminous road works completed satisfactorily during the last seven years as follows:	
	(ii) One work of value not less than ₹ 3.99 lakh against a single work order OR two works of each value not less than ₹ 2.99 lakh each against two separate work order OR three works of each value not less than ₹ 1.99 lakh each against three separate work orders in Govt./ Semi Govt. department / Autonomous body.	
5	Minimum Annual Turn Over during last 3 consecutive years shall not be less than ₹ 1.50 lakh .	Certificate of Financial Turnover for the last three years from Chartered Accountant or Audited Balance sheet for the last three years
6	Earnest Money of ₹ 9,970.00	Shall be deposited along with the tender in the form of (Demand draft/ Banker's cheque in favour of 'IIT Guwahati' payable at 'Guwahati')
7	GST Registration	GST registration certificate should be submitted.
8	PAN no. of the Company/ Authorized Dealer.	Copy of PAN Card

TECHNICAL SPECIFICATION

1. From the date of taking over of site by contractor till the completion of the whole work, the entire responsibility shall lie with the contractor. In case the contractor fails to carry out the maintenance works properly, he will be notified by the Institute to execute the same. If the contractor still, then fails to carry out the same within 7 (Seven) days from the date receiving instruction etc. the same work will be done the work and the cost thereof will be recovered from the contractor's next bill for the works. The maintenance of Road as required in the place of work is to be carried out as per the existing provisions of the road i.e. WBM/BUSG/PC/SC as may be applicable as per the direction of the Engineer in Charge.
2. The grade of bitumen for the various types of bituminous works course should as follows:
 - a. Tack coat -with bitumen emulsion-CSS-1h
 - b. Prime Coat -CSS-1
 - c. BM/DBM -60/70 or VG-30 grade bitumen
 - d. BC -PMB 70
3. The Hot Mix Plant should be set up within a linear distance of 20 to 30 km from the work site, as per IRC SP;24.
4. The record of quality control test carried out in conformity with the technical specification No.900.
5. All testing for Bituminous product must be carried from I.I.T Guwahati
6. **The following test to must be carried out for polymer Modified Bitumen (PMB70) if used.**

Sl. No.	Test	PMB (Elastomeric Thermoplastic Based) requirement	PMB (Plastomeric Thermoplastic Based) requirement	Method of test
1	Penetration at 25 deg C, 0.1mm, 100gm, 5s (Penetrometer)	50 to 90	50 to 90	IS 1203
2	Softening point deg C Min (Ring and Ball apparatus)	55	55	1205
3	FRAASS breaking point, deg C Max (FRAASS breaking app)	-16	-16	9381
4	Flash point COC, deg C, Min (Flash and fire app)	220	220	1209
5	Elastic recovery of half thread in ductile meter at 15 deg C, percent Min	70	40	
6	Viscosity at 150 deg C, Poise (brook field viscometer)	2 to 6	2 to 6	1206
7	Thin Flame oven attest and tests on residue:			
	Loss in Mass, percent , Max	1.0	1.0	9382
	Increase in softening point, deg C Max	6	6	1205
	Reduction in penetration of residue, at 25 deg C, percent, max	35	35	1203
	Elastic recovery of half thread in	50	35	

	ductile meter at 25 deg C percent, Min			
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8. The Bidder must submit an undertaking from the company/Manufacturer/Dealer as specified in the BOQ of the bidding document in respect of supply and Application of plasticizer and related products.

9. Only TMT CRS reinforcing bars are to be issued in the work. The same must bear certification from ISI marked reputed company or authorized dealer. The same must be approved by the Engineer In-Charge concerned.

10.. The work will be executed as per technical specification of IRC guide book/ MoRT&H Specification for road and bridge work, 5th Revision 2013 and as per sanctioned estimate provisions.

11. It shall be ensured that for production of materials in crushers, boulders of minimum 150mm size are utilized for the purpose.

12. Collection of materials on the road sides should be so planned that it should commensurate with the physical progress of work and the collected materials should not cause any hindrance to the traffic. It must be ensured that contractor arranges for separate land for storage of road construction materials and machinery and these shall not be allowed to be stacked on roadside.

13. Bitumen used for the work shall be heated in boilers only and not in drums on open fire. Spraying of bitumen wherever necessary should be done only with the mechanical sprayers and premixing of bitumen and stone aggregates should be done only in the proper mechanical mixture/hot mix plant.

14. No work beyond the scope of the sanctioned estimate leading either to increase in the scope of the work or change in specifications should be undertaken without obtaining prior written approval of the Institute.

15. During the course of action of work, traffic management shall be done in accordance with the guidelines contained in Ministry's letter No.RW/NH-11060/1/1998-DO.1, dtd. 07-10-87 and IRC:SP-55-2001" Guidelines on safety in construction zone ". (Drawing appended at Annex. A(b)

16. The following road safety materials must used during the time of execution / diversion of traffic .

- i) Traffic cone (385mmx385mm based) x 722mm
- ii) Safety jackets for labours /officers
- iii) Safety helmets for labours/officers
- iv) Safety reflective gloves
- v) Pollution marks for labours & engineers
- vi) Hand hold search light
- vii) Led batons

17. The display boards on development activities of the work shall be made as par guideline issued vide Ministry's letter No.RH-33044/10/2000-S&R(R), dtd. 12-08-02.

18. Video and Still Photography of the stretch to be improved/renewed before and after execution of the work should be invariably done and records sent to this office for appreciation of work done.

19. The IRC SP: 53 on "Guideline on use of polymer and rubber modified bitumen " in road construction (latest revision) should be strictly followed during construction

20. All bitumen and modified bitumen will have to be procured by the contractors from the refinery sources only. Verification of related documents for purchase & testing of bitumen/ modified bitumen from Engineer-in -change is compulsory.

21. Copy of Ministry, New Delhi's circular No. RW/NH-24035/4/2008-P&M/PIC, dt.27.11.09 for reference. In case of any contradiction, the directive of Ministry's above circular dt.27.11.09 will prevail.

22. All taxes & levies, cess etc shall be deducted as per Govt rules in addition to directives contain in Govt letter No.ADT.326/2009/43, dt.07.12.2009(copy enclosed)

23. The intermediate rolling for compaction of bituminous materials should preferably be done with the pneumatic tyred roller of 12-15 tonnes weight having 9 wheels, with a type pressure of at least 5.6 kg/sqcm instead of 8-10 tonnes dead weight of vibratory roller conforming to clause No.501.6 of specification for Road & Bridge works, 5th Revision, 2013. Hydrostatic paver finisher with sensor control should be used to grade, level & alignment of bituminous works.

24. 2% Cement by weight of total aggregates should be used as filler materials without any addl cost during the construction of SDBC/BC.

25. Anti-stripping agent should be used for construction of BM and BC

26. Construction and Quality Control:

. Gravel Base/Surface Course

While detailed specifications are contained in clause 402 of MORD Specifications, the salient features of the Methodology to be adopted and the Quality Control requirements are given below:

A. METHODOLOGY

1. Before receiving the Gravel/Soil-Aggregate material, the subbase/base, as the case

may be, shall be prepared to the specified lines and crossfall. Any existing ruts, predominant irregularities or soft yielding places should be corrected and rolled until a firm surface is obtained.

2. The Gravel/Soil-Aggregate material meeting all the specified requirements shall be spread on the prepared surface with the help of a grader of adequate capacity, for maintaining the required slope and grade.

4. Where combination of different materials is required for obtaining the Gravel/Soil-Aggregate meeting the specified requirements, mixing shall be done mechanically by the mix-in-place method.

5. The equipment for mix-in-place shall be a tractor-towed rotator or similar equipment capable of mixing the materials to the desired degree 48.

6. It must be ensured that prior to compaction, the moisture content is within 2 percent

of the optimum moisture content, making due allowance for evaporation losses. After adding the required quantity of water, the material should be processed by mechanical means like tractor-towed disc harrows/rotators until the layer is uniformly wet.

7. Rolling shall be carried out as per Para 402.4.2 of MORD Specifications.

8. The density to be achieved should be 100% of the maximum dry density for the material determined as per IS:2720 (Part 7).

9. Any loose, segregated or otherwise defective areas should be made good to full thickness of layer and re-compacted.

B. QUALITY CONTROL REQUIREMENTS:

1. Materials

(i) The grading for Gravel/Soil-Aggregate Base shall conform to the requirements given in Table 2.1 of Section 2 while the grading for Gravel/Soil-Aggregate Surface Course shall conform to the requirements given in Table 2.2 of Section 2. (ii) Wet Aggregate Impact Value (IS:5640) shall not exceed 40 and 30 when used in base and surfacing respectively.

(iii) The needed gradation shall be obtained by crushing, screening and blending processes as necessary.

(iv) Fine aggregate material passing 4.75 mm sieve shall consist of natural or crushed sand and fine mineral particles.

2. Horizontal Alignment: The edges of the Base shall be correct within a tolerance limit of (+) 30 mm in plain and rolling terrain and (\pm) 50 mm for hilly areas. The edges of the

carriageway with Gravel/Soil-Aggregate Surfacing shall be correct within (\pm) 20 mm in plain and rolling terrain and (\pm) 30 mm in hilly terrain.

3. Surface Levels

The tolerance in surface level for Gravel/Soil-Aggregate Base and Surface will be restricted to (\pm) 10 mm. A grid of 10 m by 2.5 m may be formed to check the surface level.

4. Surface Regularity

The maximum permitted difference between the Gravel/Soil-Aggregate layer and 3 m straight edge shall be 12 mm for longitudinal profile and 10 mm for cross profile. The cross profile should conform to the prescribed camber.

5. Degree of Compaction: Density shall be 100 per cent of maximum dry density for the material determined as per IS:2720(Part7).49.

BILL OF QUANTITIES

NAME OF WORK

**Repairing of sub road to the entry of Umium and Barak
Hostel at IITG campus**

Bill of Quantities

Name of Work: Repairing of sub road to the entry of Umium and Barak Hostel at IITG campus

SI no.	Description of Items	Unit	Quantity	Rate in Rs.		Amount (Rs.)
				in figure	in words	
1	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.	sqm	899.25			
2	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications : On bituminous surface @ 0.50 Kg / sqm	sqm	899.25			
3	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge. 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	2.00			

4	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge. 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	35.97			
5	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	1.50			
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1.08			
Total =						
Rebate if any=						
Total after rebate=						

Seal

(Signature of the tenderer)