

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT Kharagpur".



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT
Kharagpur.

PART – I: TECHNICAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2017-18/87
DATED : 03.01.2018

JANUARY 2018

Cost of Tender Document : Rs. 1000.00 (Non-Refundable)
Last Date & Time of Submission : 15.01.2018 , upto 3:00 pm

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

योगः कर्मसु कौशलम्

Name and Address of Bidder: M/S.....

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CCM Tender Sl. No. _____

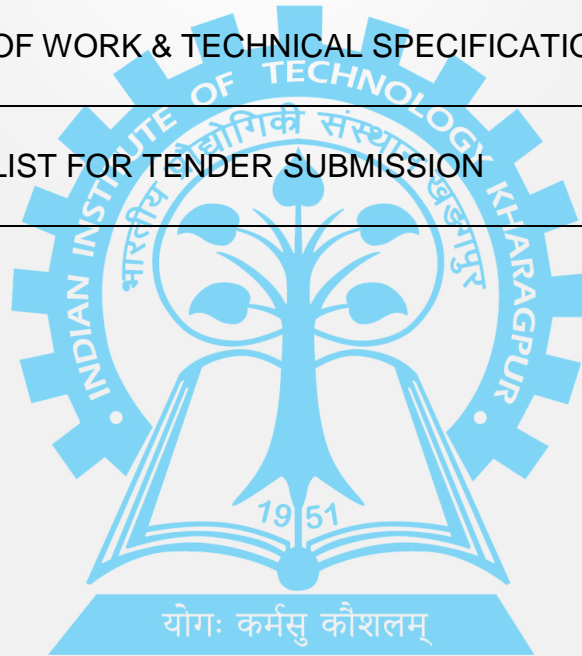
Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT Kharagpur".

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. SE(C)/IIT/TEN/2017-18/87

Date: 03.01.2018

NOTICE INVITING TENDER

The Superintending Engineer (Civil), IIT Kharagpur, invites sealed **Percentage Rate Tenders** under **Two part Bid System** containing Part-I (Technical Bid) & Part-II (Financial Bid) from the approved and eligible contractors of the Indian Institute of Technology, Kharagpur/CPWD/PWD/MES and other bona-fide agencies meeting the minimum qualification criteria for the following work:

Sl. No.	Name of work	Estimated Amount (Rs.)	Earnest Money Deposit (Rs.)	Time for Completion	Start Date & Time of Tender Document Download / Bid Submission	End Date & Time of Tender Document Download / Bid Submission	Date & Time of opening of Technical Bid
1.	Resurfacing of Internal Road at SN/IG Hall of Residence IIT Kharagpur.	4,90,097.00	9,810.00	02 Months	04.01.2018 03:30 PM	15.01.2018 upto 03:00 PM	15.01.2018 at 3:30 PM

Cost of Tender Paper Rs. 1,000.00 (Rupees One Thousand only), NON REFUNDABLE, should be deposited in the form of DD only in favour of IIT Kharagpur, payable at Kharagpur. Tender without 'Cost of Tender Document' will be summarily rejected. The Earnest Money (EMD) should be deposited in the form of DD only in favour of IIT Kharagpur, payable at Kharagpur. Tender without requisite EMD will be summarily rejected. Validity of both the DD should be at least 03 months from the date of publication of NIT. The DD for Cost of Tender Paper and DD for EMD should be submitted in a separately sealed envelope kept within the main envelope containing another two envelopes of Technical & Financial Bid.

Eligibility Criteria

Contractors who fulfill the following minimum qualification criteria shall be considered as eligible bidder:

- Agencies should have satisfactorily completed the works as mentioned below during the last 07 (Seven) years ending last day of the *December, 2017*:
 - 03 (three) similar works each costing not less than 40% of estimated cost or
 - 02 (two) similar works each costing not less than 60% of estimated cost or
 - 01 (one) similar work costing not less than 80% of estimated cost executed under Central/State Government Department / Central/State Autonomous Body / Central/State Public Sector Undertaking.

Similar work shall mean: **Construction/resurfacing/repair & renovation/annual maintenance works of Bituminous road.**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of applications for tenders.

Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private individuals / organizations for whom such works have been executed shall not be accepted.

- The tenderer have to submit a declaration regarding the capacity to deploy the following plant & machineries on his own / hire basis: **(i) Static Road roller, (ii) Bitumen Sprayer, (iii) Air Compressor and (iv) Spot Mix Plant**

The tender document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any) can be downloaded from the **Central Public Procurement Portal** of Government of India <https://eprocure.gov.in/cppp/tendersearch> & **Institute's website** <http://www1.iitkgp.ac.in/topfiles/tenders.php>. *Corrigenda, if any, will be published only on Institute Website and Central Public Procurement Portal. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever. In case of any discrepancy between the tender documents downloaded from internet and the master copy available in this office, the letter shall prevail and will be binding on the tender(s). No claim on this account will be entertained. Rates quoted by the bidders should be GST compliant.*

Tender should be submitted as per the prescribed format within the specified date and time at Office of Civil Construction & Maintenance Section, IIT Kharagpur, failing which the offer shall be summarily rejected. **Bid Validity period is 90 Days** from submission of bid. Bid will be opened at Civil Construction & Maintenance Section, IIT Kharagpur. **The Institute reserves the right to reject any tender without assigning any reason thereof.**

Superintending Engineer (Civil)
On behalf of Indian Institute of Technology
Kharagpur

Copy to:

- 1) Registrar,
- 2) Chairman (CC&M)
- 3) Vice Chairman (CC&M)-Civil
- 4) Engineer (Civil)
- 5) Executive
- 6) Asstt./ Jr. Engineer (Civil)
- 7) Notice Board
- 8) Office file

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INSTRUCTIONS TO THE BIDDER

1. Attention of the tenderer is directed to the conditions of tender and general conditions of contract of IIT Kharagpur. Bidders who are not aware of the "General Conditions of Contract" of IIT Kharagpur are instructed to collect the same from Civil Construction and Maintenance Section, IIT Kharagpur and read the terms & conditions before submission of the tender.
2. The tenderer shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore. Failure by the tenderer to have done all the things, which in accordance with his condition he is deemed to have done shall not relieve the successful tenderer of the responsibility for satisfactory completion of the work as required. If there is any clarification required, the tenderer shall submit the queries in writing 03 (Three) days before the last date & time of submission of the tender, to the Civil Construction & Maintenance Section, IIT Kharagpur. Access to the site will be granted, if necessary, to the tendered by prior permission of the Engineer-in-charge.
3. The time for completion of work is **02 (Two) Months** & will be reckoned from the 7th day from the date of issue of Work Order or handing over of site, whichever is earlier.
4. EMD of requisite amount as mentioned in NIT/Corrigenda in favour of **IIT Kharagpur** in the form of **Demand Draft** only from any **Nationalized Bank** payable at **Kharagpur** should be enclosed within a **Separately Sealed Envelope** within the main envelope. Validity of DD should be at least 90 days from date of publication of NIT. Any tender received without requisite Earnest Money in the form and manner as mentioned above shall be summarily rejected and treated as cancelled. The Earnest Money received shall be refunded to the unsuccessful bidders without any interest, subject to the provisions of Clause 5 of ITB. The Earnest Money Deposit (EMD) of successful tenderer shall be retained and converted as part of Security Deposit.
5. Earnest Money Deposit (EMD) will be forfeited in the following cases -
 - a. If the tenderer withdraws / modifies his tender during the period of Bid Validity.
 - b. If the tenderer does not accept the correction of arithmetical errors of his tender.
 - c. If the tenderer after award of work, does not start the work within the stipulated time period as per Letter of Acceptance / Work Order.
6. **Eligibility Criteria**

A. Contractors who fulfill the following requirements shall be considered as Eligible Bidder:
Agencies should have satisfactorily completed during the last 07 (Seven) years ending last day of the *December 2017*:

- a) 03 similar works each costing not less than 40% of estimated cost, i.e. *Rs. 1,96,039.00* or
- b) 02 similar works each costing not less than 60% of estimated cost, i.e. *Rs. 2,94,058.00* or
- c) 01 similar work costing not less than 80% of estimated cost, i.e. *Rs. 3,92,078.00*

executed under Central/State Government Department or Central/State Autonomous Body or Central/State Public Sector Undertaking. **Completion certificate** issued by Competent Authority will only be considered as credential.

Similar work shall mean: Construction / Resurfacing / Repair & renovation / Annual maintenance works of Bituminous Road

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of applications for tenders. If the Completion certificate issued by Competent Authority does not reflect the type of work, then final bill / schedule of quantity of the qualifying works also to be attached along with the Completion certificates within Technical Bid.

B. The bidder should be capable to deploy the following plant & machineries on his own/hire basis:
(i) Static Road roller, (ii) Bitumen Sprayer, (iii) Air Compressor and (iv) Spot Mix Plant
The bidder has to submit a declaration regarding the same within the Technical Bid.

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7. Submission of Bid

The bids shall be submitted in **Two Bid System** in **Three separate sealed envelopes**:

I. **Envelope-1 : Tender Fee and EMD** will comprise of -

- i) **Cost of Tender Paper** Rs. 1000.00, NON REFUNDABLE in the form of DD in favour of IIT Kharagpur, payable at Kharagpur (validity of DD should be at least 03 months from the date of publication of NIT). Tender without ‘Cost of Tender Document’ will be treated as cancelled.
- ii) **EMD** of requisite amount in the form of DD in favour of IIT Kharagpur payable at Kharagpur (validity of DD should be at least 03 months from the date of publication of NIT). Bid without EMD would be summarily rejected.

II. **Envelope-2 : Technical Bid** will comprise of -

- i) Self certified copies of Credential documents fulfilling the minimum eligibility criteria as per Clause 6 above, i.e., Experience Certificates for completion of similar type of job within last seven years.
- ii) Original Tender Document – Part-I: Technical Bid duly Stamped & Signed in all pages.
- iii) Self certified copies of Statutory documents like Trade License, PAN, IT Return, GST Registration details etc.

III. **Envelope-3 : Financial Bid** will comprise of -

Original Tender Document – Part-II: Financial Bid with duly filled-up **Schedule of Quantities** and **Form of Tender** as an acceptance to the terms and conditions set in the tender (stamped & signed in all pages).

All the envelopes should be duly marked on top with **NIT Number, Name of work and Tender Fee & EMD / Technical Bid / Financial Bid** as the case may be and the **name of the bidder**. All these three envelopes to be put in another sealed large envelope duly marked on top with **NIT Number and Name of work** and **name of the bidder**. Tenders must be delivered at the place and time as indicated in NIT / further corrigenda. Bids that are not in the above format will be rejected.

8. Each and every page of the tender documents and correspondences accompanying the tender shall have to be duly signed and stamped by the Bidder / Authorised Signatory before submission. The person / officer signing the tender / bid should be the **Owner / Proprietor / Partner / CEO / MD / Director** of the company or delegated with an appropriate **Power of Attorney (duly endorsed by a Notary Public)** to sign such documents by the **Owner / Proprietor / Partner / CEO / MD / Director** of the company.
9. The bidder shall have to submit certified copies of valid Trade License, PAN, Income Tax Return, GST registration details, other statutory tax clearance certificates (if any) and credential documents fulfilling the minimum eligibility criteria along with his tender. The original copies of these documents will have to be produced when demanded for verification.
10. All Rates, Prices, Amounts and Sums quoted by the bidder shall be in Indian currency only. The language used throughout shall be English.
11. All Rates, Amounts & Sums shall have to be quoted in indelible ink and written both in figures and words. If the rate quoted in words does not tally with the rate quoted in figures then the rate which corresponds to the lesser amount shall be considered.
12. Any overwriting / correction / applying correction fluid shall be avoided and in case any correction is made the same must be initialized and stamped.
13. Tender must be submitted with the rates for all the items of work involved and any incomplete tender will not be considered. The items for which the rates are not quoted will be considered as **‘Zero’** & the agency shall complete that item of work without any claim.
14. No alteration shall be made by the tenderer in the tender and no conditional tender will be entertained. Tender with split rate will not be considered.

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15. The bid shall remain valid for a period of **90 days** from the date of opening of the bid. If before expiry of the validity period or issue of work order, whichever is earlier, the bidder amends / modifies / withdraws his bid, making unacceptable to the institute, then the Earnest Money Deposit shall be liable to forfeiture at the option of the Institute.
16. The Rates quoted by the tenderer should be inclusive of all taxes & duties, freight, cost for loading & unloading etc. and must hold good till the completion of work and shall not be subjected to escalation due to increase in local market rates of materials and labour. No claim on this account what so ever shall be entertained at any stage including the extended period, if any.
17. The Intending bidders will have to produce documentary evidence in original in support of their credentials before the competent authority whenever demanded for verification. If any information furnished by the bidder is found as false / fabricated then his bid will be rejected and treated as cancelled, even if the same is detected at any stage after signing of the contract and would lead to termination of the contract besides forfeiture of Earnest Money Deposit (EMD) and liabilities towards prosecution under appropriate law. In such cases the bidder / tenderer will be debarred from participation in future tendering process for next 03 (Three) years.
18. Should there be any doubt or obscurity as to the meaning of any of the tender documents or if any further information is required, the tenderer must address his enquiry in writing in duplicate to *Superintending Engineer, Civil Construction & Maintenance Section, Indian Institute of Technology Kharagpur - 721302, West Bengal*. Such enquiries must be submitted not later than **03 (Three)** working days before the last date fixed for submission of the tenders.
19. The sealed Bids shall be received by the Institute at Civil Construction and Maintenance Section not later than the time and date stipulated in the Notice Inviting Tender or Corrigenda otherwise. Tenders that are received after the date and time specified will not be considered.
20. The Technical Bid of tender will be opened on the specified date and time of opening at the Civil Construction & Maintenance Section, IIT Kharagpur in the presence of bidders / tenderers or their Authorised representatives (with proper authorization letter from Owner/ Proprietor/ Partner/ CEO/ MD/ Director of the company mentioning Name, Address and designation of the person being authorised).
21. Date and time of opening of Price Bid will be informed to the Technically Qualified Bidders and will be opened at the Civil Construction & Maintenance Section, IIT Kharagpur in the presence of bidders / tenderers or their Authorised representatives (with proper authorization letter from Owner/Proprietor/Partner/CEO/MD/Director of the company mentioning Name, Address and designation of the person being authorised).
22. The Institute reserves the right to accept or reject any or all the offer including the lowest without assigning any reason. The Institute does not bind itself to accept the lowest offer.
23. The successful tenderer, shall deposit an amount equal to 5% of the tendered and accepted value of the work as performance guarantee in the form of Demand Draft of a Scheduled Bank in favour of IIT Kharagpur payable at Kharagpur. The time allowed for submission of the performance guarantee shall be 15 days of receiving “Letter of Acceptance” (LOA). This period can be further extended as the written request of the contractor by the Engineer-in-charge for a maximum period ranging from 1 to 15 days with a late fee @ 1.00% per day of Performance Guarantee Amount. If the bidder still fails to deposit the performance guarantee within the extended time period, i.e. within 16th day to 30th day from the issue of letter of acceptance (LOA), his bid will be rejected and treated as cancelled and the entire Earnest Money Deposit shall be forfeited. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the Contractor, without any interest.
24. Standard Institute payment procedure shall be followed. A sum @ 5% of the gross amount of the bill shall be deducted as Security Deposit from the bill of the contractor. However, Earnest Money shall be adjusted first in the Security Deposit and the rest amount to complete a sum of 5% of gross bill value will be deducted from the contractor’s bill. The security deposit of the Contractor shall not be refunded before the expiry of defect liability period after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

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Tender Document for "Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT Kharagpur".

ADDITIONAL CONDITIONS OF CONTRACT

1. The quantities indicated are approximate and may vary at the time of execution. The Institute will exercise absolute discretion for operating all or some items of the schedule.
2. Contractor has to remove all the debris from the site of execution and dispose them at suitable places shown by the Engineer or his authorised representative at site.
3. Cement used for the work should not be older than two months from the date of manufacture. The contractor should purchase the cement from authorised dealer and submit the test certificates/vouchers prior to execution of the work.
4. All temporary arrangements, staging, working platforms etc. is to be provided by the tenderer at his own expense to the satisfaction of the Engineer-in-Charge. The Institute will not however, be liable to pay any compensation due to accident, injury to the contractor's work men or any account what-so-ever.
5. Steel to be supplied and used should be from approved manufacturers. Steel from manufacturers other than approved make / re-rolled steel will not be acceptable. The consumption of steel will be regulated as per bar bending schedule and drawing to the contractor and/or as directed by Engineer-in-charge. Payment of reinforcement rod, will be made as per actual use including overlaps, crank, bending etc., as needed at work site, if any, as per approved drawing. Quantity will be calculated using standard weight per running metre. No wastage on any account is payable. Test certificate of steel should be submitted by the contractor. The contractor must submit vouchers for the steel purchased to the Engineer. All reinforcement used should be free from loose mill scale, loose rust, paint and oil coating etc.
6. All concreting works shall be Machine mixed and Machine vibrated and will have required levels of strength at the time of testing. Poorly executed concrete have to be demolished and repair will not be allowed.
7. The Institute will be at liberty to take samples during the course execution of work and get the same tested at Institute's laboratory to ascertain the quality conforming to relevant specification. The cost of sample and the charges for the testing will have to be borne by the contractor.
8. The contractor will have to maintain the work for **SIX** calendar months from the certified date of its completion.
9. The job is to be done as per WBPWD Building & Sanitary works specification for Building / Civil works and WBPWD Roads specification for Road Works, as applicable and provisions made in relevant IS codes must be followed. Wherever these are silent, the construction and completion of works shall conform to sound engineering practice as approved by the Engineer-In-Charge. In case of any dispute arises out of the interpretation of the above, the decision of the Engineer-In-Charge shall be final and binding to the contractor.
10. The bituminous road work shall be carried out by using **bitumen of grade VG30 preferably from IOCL** wherever applicable.
11. Roof treatment work / water proofing treatment work should be guaranteed by the contractor for 10 years after successful completion of work, wherever applicable.
12. The splashes of paints over doors, windows and floor shall be cleaned thoroughly after execution of the work.
13. Irrespective of rates quoted by the bidder, the contractor shall be solely responsible for payment of *Minimum Wages* as stipulated by the Government from time to time.
14. The contractor shall have to deploy the following plant & machineries in addition to the other necessary machineries to carry out the Bituminous road work:
 - (i) **Static Road roller,**
 - (ii) **Bitumen Sprayer,**
 - (iii) **Air Compressor and**
 - (iv) **Spot Mix Plant**

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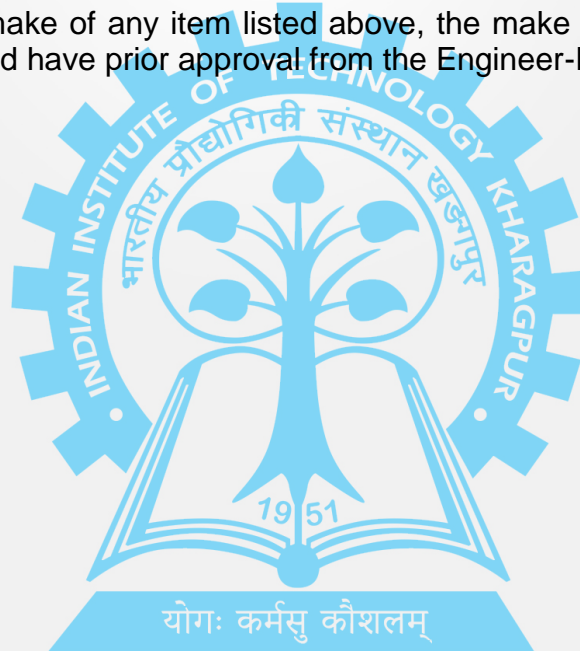
SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes – *Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT Kharagpur.*

APPROVED MAKE LIST OF MATERIALS TO BE USED IN ROAD WORKS

SL. NO.	ITEM	SUGGESTED BRAND NAME OR SIMILAR (APPROVED BY THE AUTHORITY)
01.	Cement (PSC)	ACC / Ultratech / Ambuja / Lafarge / Birla
02.	Bitumen (grade VG30)	IOCL

Note: For items not covered in the above list or in case of non-availability of preferred make of any item listed above, the make / brand to be used in the work, should have prior approval from the Engineer-In-Charge.



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CHECK LIST FOR TENDER SUBMISSION (TWO BID)

(To be filled by the Tenderer by putting “√” and to be signed & stamped)

Sl. No.	Description	Yes	No
1	Submitted requisite Tender fee		
2	Submitted requisite EMD		
3	Each pages of the tender document duly signed & stamped		
4	Form of Tender properly signed with witness and enclosed with Financial Bid		
5	Financial Bid filled up with quoted prices (% above / below / at par) with proper Signature & Stamp		
6	Tender fee & EMD submitted in separately sealed envelope and duly marked on top with “NIT Number:”, “Name of work:” and “Tender Fee & EMD”		
7	Technical Bid & Financial Bid submitted in separate sealed envelope and duly marked on top with “NIT Number:”, “Name of work:” and “Technical Bid” / “Financial Bid” as the case may be and the “Name of the bidder :”		
8	All the three Envelopes put in another sealed Envelope duly marked on top “NIT Number:”, “Name of work:” and the “Name of the bidder :”		

योग: कर्मसु कौशलम्

Name of the Bidder _____

(in Block letters)

Signature : _____

Address : _____

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INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT
Kharagpur.

PART – II: FINANCIAL BID

NOTICE INVITING TENDER NO. SE(C)/IIT/TEN/2017-18/87
DATED : 03.01.2018

JANUARY 2018

Last Date & Time of Submission : 15.01.2018, upto 3:00 pm

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

योग: कर्मसु कौशलम्

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

Name and Address of Bidder: M/S.

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CCM Tender Sl. No. _____

Dated _____

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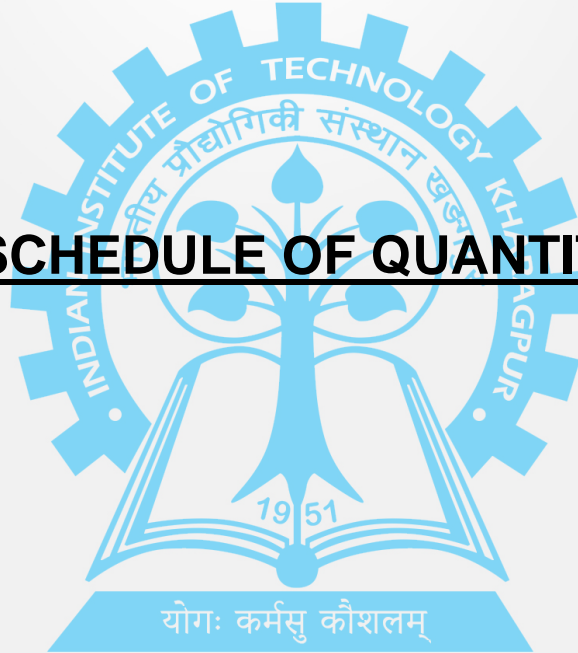


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SCHEDULE OF QUANTITIES



**CIVIL CONSTRUCTION AND MAINTANENCE SECTION
IIT KHARAGPUR**

SCHEDULE OF QUANTITY

Name of work : Resurfacing of internal road at SN/IG Hall of Residence.

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. Depth of excavation not exceeding 1.5 m.	Cu.M	2.00	120.47	240.94
2	Removal of earth from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge.	Cu.M	15.00	168.00	2520.00
3	Providing and applying primer coat with Cationic Bitumen Emulsion of approved grade conforming to IS: 8887-1978 and requisite quantity on prepared surface of granular base including cleaning of road surface and spraying primer using Mechanical means including cost and carriage of bitumen emulsion and all other incidental costs of work complete as per Clause 502 of Specifications for Road & Bridge Works of MoRT&H (5th Revision). For WBM / WMM Surface: (with primer @ 0.70-1.0 kg/sqm)	Sq.M	10.00	29.48	294.80
4	Providing, laying and rolling of Open - graded premix surfacing of 20 mm thickness composed of 13.2 mm (@ 0.018 m ³ per m ²) and 11.2 mm (@ 0.009 m ³ per m ²) size stone aggregates, including thoroughly cleaning of the surface, screening, cleaning and pre-heating stone chips and fully pre-coating the same either using viscosity grade paving bitumen or cut-back or emulsion, carrying the mixture by any suitable arrangements, laying the mixture uniformly over the surface, including line, grade and level to serve as wearing course on a previously prepared base, including mixing in Mobile Hot Mix Plant (Light Duty) and thoroughly rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades including the cost and carriage of stone chips and matrix, heating the matrix, preheating the aggregates to required temperature and including the hire charges of Mobile Hot Mix Plant (Light Duty) and other machinery, pay of operators, cost of fuel and lubricants etc. complete to be followed by seal coat of either Type A or Type B as per Technical Specification Clause 508 for Rural Roads of MORD - Using Mobile HMP (Light duty).	Sq.M	1665.00	154.69	257558.85

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
5	Providing and laying Premixed Seal Coat (Type B) with approved quality grit @ 0.6 m ³ / 100 m ² and bitumen binder on thoroughly cleaned black top surface coated with tack coat, including heating and mixing cleaned sand/grit (100 % passing through 2.36 mm sieve and retained on 180 micron sieve) uniformly with bitumen binder, laying and spreading the mix at an uniform rate using suitable means, brushing the surface, if necessary, to ensure uniformity, followed by rolling with power roller including the cost and carriage of binder and aggregates, cost of heating the binder & aggregates and all other incidental charges, cost of fuel and lubricants, including hire charges of machineries, tools & plants required for construction and quality control complete as per Clause 511 of Specifications for Road & Bridge Works of MoRT&H (5th Revision). - By Manual Means with Hot Bitumen Binder (@ 6.80 kg / 10 Sq.m.)	Sq.M	1665.00	48.74	81152.10
6	Supplying, spreading and consolidating Moorum to a depth of 75 mm at desired density and C.B.R. as per specification with power roller to proper gradient and camber including watering as necessary, and lighting, guarding, barricading and making adequate earthen bundh where necessary to protect the edges and curing with water for 2 to 3 days, mending cracks by rolling where necessary including all incidental charges of roller, cost of fuel & lubricants etc. complete as per specification.(The payment is to be made on the basis of the finished compacted volume of moorum.)	Cu.M	5.00	606.59	3032.95
7	Providing and applying tack coat with Cationic Bitumen Emulsion of approved grade conforming to IS: 8887-1978 on the prepared surface cleaned with Hydraulic broom, moistening the surface including cost and carriage of emulsion, hire charges of machinery and labour, cost of fuel and lubricants all complete as per Clause 503 of Specifications for Road & Bridge Works of MoRT&H (5th Revision)				
	(a) On Granular surfaces treated with primer, (Using Bitumen emulsion at the rate of 0.25 to 0.30 kg per sqm.)	Sq.M	2.00	10.36	20.72
	(b) On Bituminous Surface (Using Bitumen Emulsion at the rate of 0.20 to 0.30 kg per sqm.)	Sq.M	4600.00	9.54	43884.00
8	Providing and laying bituminous macadam with Mobile Hot Mix Plant (Light Duty) using approved crushed aggregates of specified grading as per Table 500.4 premixed with bituminous binder, transported to site laid over a previously prepared surface at specified laying temperature by means of approved and suitable arrangements to the required grade, level and alignment and rolled with suitable power roller for break down, inter-mediate and finished rolling as per specification to achieve the desired compaction including cost and carriage of stone materials and bitumen, hire charges of machinery and equipment, cost of fuel and lubricants and wages of operational staff, quality control complete as per Specifications for Road & Bridge Works of MoRT&H (5th Rev). For Grading II (19 mm nominal size, 50-75 mm thick).				
	In Profile Corrective Course.	Cu.M	10.00	8068.75	80687.50
9	Supply of Labour for day to day requirements. To clean the roof from sticking the lime terracior materials.	Nos.	10.00	269.50	2695.00
10	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water ramming complete including the cost of supply of sand. (Payment to be made on measurement of finished quantity).	Cu.M	5.00	533.06	2665.30

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
11	Supplying, spreading and consolidating stone metals of specific size in hard crust to requisite thickness (measured after compaction) in layers including screening in bats/metals etc. as necessary, spreading manually or with the help of motor grader, sweeping, watering and rolling in stages with power roller to proper line, grade and camber, spreading and sweeping requisite type and quantity of screening materials to fill up the interstices of coarse aggregates, applying binding materials as directed, including lighting, guarding & barricading and making necessary earthen bundh of one metre width on each side where necessary to protect edges and preparing the bed by necessary cutting or filling and rolling all complete including the cost of all materials and hire and labour charges of all man and machineries and as per specification and direction of Engineer-in-charge including the cost of stone metal. With coarse aggregate size range 53-22.4 mm (Grading - III) with Type - B Screening for 75 mm compacted thickness.	Sq.M	10.00	360.51	3605.10
12	Picking up and removing old bituminous layer or sand sealing coat from old black topped surface and cleaning the exposed surface by scraping and stacking the material as directed. By manual means : From 25 mm to 50 mm thick.	Sq.M	10.00	22.60	226.00
13	Cement concrete with graded stone ballast (40 mm size excluding shuttering), In ground floor, [Pakur Variety], 1:3:6 proportion.	Cu.M	2.00	5757.00	11514.00
Total Amount				Rs.	490097.26
				Say,	490097.00

I agree to execute the work at _____ % [in figure] (

_____ percent) [in words] ABOVE / BELOW / AT PAR Department estimated amount / item rates .

योग: कर्मसु कौशलम्

Signature of the Contractor with date & seal

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Resurfacing of Internal Road at SN/ IG Hall of Residence at IIT Kharagpur".

FORM OF TENDER

(To be filled by the Tenderer with sign & stamp and submitted within the Financial Bid envelope)

To
The Superintending Engineer (Civil)
Civil Construction & Maintenance Section
Indian Institute of Technology
Kharagpur, West Bengal

I/We, _____ Son/Daughter of Sri _____
Proprietor/Partner/CEO/MD/Director of M/s. _____ of
(Address) _____

having examined the site of works, carefully read and understood the Specifications, General Conditions of Contract and Conditions of the Tender, hereby tender and undertake to execute and complete all the works required to be performed in accordance with the Specifications, Bill of Quantities, General Conditions of Contract, the rates and prices set out in the annexed Bill of Quantities within _____ days / weeks / months from the seventh day of the date of receiving work order.

I agree to execute the work at _____ % (in figure) (_____ percent) (in words) **ABOVE / BELOW / AT PER** the Departmental Estimated Rates.

I/We have submitted Account Payee Demand Draft No. _____ dated _____ in favour of **IIT Kharagpur** payable at **Kharagpur** for Rs. _____ (Rupees _____) with the tender as **Cost of Tender Document**.

I/We have submitted Account Payee Demand Draft No. _____ dated _____ in favour of **IIT Kharagpur** payable at **Kharagpur** for Rs. _____ (Rupees _____) with the tender as **Earnest Money Deposit**.

I also declare that the information / documents furnished along with the application and tender are true and authentic to the best of my knowledge and belief. I am well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender / termination of contract at any stage besides liabilities towards prosecution under appropriate law. Each page of the tender document and papers submitted by my Company are authenticated, sealed and signed, and I take full responsibility for the entire documents submitted with this tender.

I/We agree that the period for which the tender shall remain open for acceptance shall not be less than **90 Days** from date of opening of tender.

Signature of the Tenderer / Authorised person

(Seal of the Tenderer)

Witness:

Signature : _____

Name : _____

(in block letters)

Address : _____

Name of the tenderer _____

(in Block letters)

Address : _____
