



INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
ESTATE OFFICE, POWAI, MUMBAI, MAHARASHTRA – 400 076
TEL. 022 2576 7927/4995 E-mail : drestate@iitb.ac.in

IIT Bombay invites digitally signed Technical Bid & Financial Bid for following work from the contractors having similar experience in Central Government Departments / State Government Departments / Central or State Autonomous Bodies / State or Central Public Sector Undertakings & Large Private Organizations. The detail of work is given below:

Sr. No.	Name of Work	Estimated Cost (In Rs.) Incl. of 18% GST	EMD (Rs.)	Time Limit	RFX No.
1.	Construction of Box culvert on NCC road near JN of workshop road (library security kiosk). EO/A/INFRA/WKS-245/22-23	Rs.69,42,076/-	Rs.1,38,900/-	45 working days	6100001343

Intending bidders needs to be register themselves on IIT Bombay portal i.e. <https://portal.iitb.ac.in/vrp/index.jsp> to get User ID and Password. View the open tender on <https://ep.iitb.ac.in/irj/portal> Please visit https://portal.iitb.ac.in/vrp/vrp_srm_docs.jsp for configuration process and user manual. Queries regarding to vendor registration, configuration process please contact on 022 – 2159 3001(ASC Help-desk) and queries regarding to online Bid submission please contact to +91 82915 56277/56377.

Date and time of submission of tender documents digitally are from 27.02.2023 11:15 a.m. to 09.03.2023 upto 11:15 a.m. Date of opening of Technical Bid will be 09.03.2023 at 11:30 a.m. Date of opening of Financial Bid will be on 15.03.2023(Tentative).

Interested contractors/agencies are requested to upload Technical bid and Financial bid on the SRM tendering portal of IIT Bombay.

(A) All contractors/agencies should upload technical bid with the following documents on SRM tendering portal, failing to which their tender will be summarily rejected from the tendering process:

- 1) i. Experience of having successfully completed works during the last 7 years ending last day of the month previous to the one in which applications are invited :
Three similar completed works costing not less than the amount equal to 40% of estimated cost put to tender,
OR
Two similar completed works, costing not less than the amount equal to 60% of the estimated cost put to tender
OR
One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.
AND
ii. One completed work of any nature (either part of (i) or a separate one) costing not less than the amount equal to 40% of the estimated cost put to tender with some Central Government Departments / State Government Departments / State or Central Autonomous Bodies / State or Central Public Sector undertakings.
- 2) Detail statement for work completed, work in hand including balance commitment of work should be enclosed for last three year commencing from 1st April and ended with 31st March and **contractor should submit his details as per Annexure'A' format with support of xerox copies of work order and work completion certificates, otherwise the bid capacity will not be calculated and his technical bid will be summarily rejected, and no Financial Bid will be opened.** (All contractors/agencies are hereby informed that they should upload Technical bid as per format of Annexure "A", changing in format is not allowed).
- 3) Upload a scan copy of the information in respect of **manpower/mandays** for above said work must be given in **undertaking** with official signature and seal/stamp, otherwise tender will be **rejected**.(Undertaking format uploaded on SRM online tendering portal)
- 4) Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank.
- 5) P. F. registration certificate.
- 6) P. F. challans of last 12months.
- 7) (i) ESIC registration certificate and copies of ESIC challans of last 12months.
OR
(ii) Contractors' all risks insurance (CAR policy) / Medclaim policy.
- 8) PAN card.
- 9) GST registration certificate.
- 10) Income Tax Return for last 03 years.
- 11) List of Equipment's, Machinery, Tools.
- 12) List of Technical Staff with copies of their Degree/diploma certificate.

- 13) Labour Licence obtained during last 03 years.
- 14) The contractors who are empanelled under Estate Office enlisted contractors list need not have to upload a scan copy of DD / Pay Order 2% work EMD against the work. The contractors (other then empanel list) that are applying for tender need to upload a scan copy of DD / Pay Order 2% work EMD (Rs.1,38,900/-). If tender submitted without uploading scan copy of EMD in the form of DD / Pay Order in SRM will be rejected summerly.
- 15) Power of Attorney, if any.
- 16) Proof of Constitution: An affidavit in case of Sole Proprietorship, Partnership Deed in case of Partnership Firm, Article of Association in case of Private / Public Limited Companies.

Superintending Engineer (I/C)

Oil =

for

22/2

22/2

Note:

The work will be executed with lowest bidder as per the terms and conditions of work order and tender documents signed by the lowest bidder. (All agencies are requested to upload a scan copy of Terms and Conditions with official signature and seal/stamp on SRM online tendering portal)

The validity of the bid will be valid for 06 months from the date of opening of tender.

If agency fails to submit the above mentioned documents by uploading to the online portal, their technical bid will be rejected.

Litigation history of the agency is required to be uploaded along with the application. Tender would not be awarded if any inquiry proceeding / criminal case is found pending against the agency.

No work will be subletted to third party. If found payment of final bill will not be processed and the contractor's name will removed from the enlistment without giving him further notice.

Contractor's/Agencies/Proprietor's are requested to give Power of Attorney to your representative to deal any matter with any Officers or Staff of IIT Bombay on behalf of you or your agency.

Rates of estimate are based on CPWD DSR 2016 and rate analysis.

The contractor have to quote his own rates online against each item of work.

Scan and upload all the above mentioned documents in "C folder" of online SRM tendering protal.

IIT Bombay reserve its rights to reject any or all tenders without assigning any reason and without any reference.

Superintending Engineer (I/C)

Oil =

for

22/2

22/2

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

**ANNEXURE 'A' (FORMAT)
TECHNICAL BID**

File No. : EO/A/INFRA/WKS-245/22-23

Name of Work : Construction of Box culvert on NCC road near JN of workshop road (library security kiosk).

Name of the Contractor _____

Sr. No.	Name of Client	Name of Works	2019-2020 (In Lakhs)	2020-2021 (In Lakhs)	2021-2022 (In Lakhs)	2022-2023 (In Lakhs)	
						Completed	Balance
			-	-	-	-	-
			-	-	-	-	-
Total Amount (In Lakhs)			-	-	-	-	-

Note : Contractor must submit his details as per Annexure 'A' with declaration stating that he is possessing all the original copies of work orders and experience certificates, it will be produced as and when required to IIT Bombay. However, if it is found false at later stage, the contractor will be debarred or blacklisted. Whereas, if information is not submitted as per Annexure 'A' format his bid capacity will not be calculated and his tender will be summarily rejected.

Superintending Engineer (I/C)

Dikar
Jane
22/2

Signature of Contractor
Name & Address in full

WORK UNDERTAKING

EO/A/INFRA/WKS-245/22-23

ESTATE OFFICE

To,
Superintending Engineer (I/C)
Indian Institute of Technology Bombay,
Powai, Mumbai, Maharashtra - 400 076.

Sub : Construction of Box culvert on NCC road near JN of workshop road (library security kiosk)

Dear Sir,

We are hereby quoting all the rates for the attached schedule of short tender of the above mentioned job.

We hereby accept & signed all the General Terms and Conditions and Special Conditions of Contract.

The work will be completed within specified time limit of 45 working days as mentioned in the notice inviting for tenders.

I / We agree to keep the tender open for One Hundred and Eighty (180) days from the due date of its opening / One Hundred and Eighty days from the date of opening of financial bid in case tenders are invited on 2/3 envelope system and not to make any modification in its terms and conditions.

Note: -

The following information is required to be provided. If fails to do so, the tender will be assumed incomplete and hence the same will be rejected.

1) No. of Unskilled casual labour to be required per day. :

2) No. of Skilled casual labour to be required per day. :

.....

Total Mandays required for completion of work. :

Thanking you,

Yours faithfully,

Signature of the Contractor
With official Seal / Stamp of the firm

Note: Upload the document as a scan copy in PDF format, with all respective information in respect of **manpower/mandays** required for above subjected work with official signature and seal/stamp, otherwise tender will be **rejected**.

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI – 400076

EO/A/INFRA/WKS-245/22-23

ESTATE OFFICE

Name of work : Construction of Box culvert on NCC road near JN of workshop road (library security kiosk).

Schedule Of Work

Sr. No.	Description	Qty.	Unit
1	Dismantling UCR Masonry work including breaking the wall by manually/mechanical means, stacking the rubble stone for re-use etc. & stacking the debris at site for taking away out of IIT campus etc. all complete as directed by Engineer Incharge.	40.00	m3
2	Dismantling Plain cement concrete work by manually/mechanical means including breaking concrete by chiseling, wedging etc. and stacking the same at site for taking away out of IIT campus etc. all complete as directed by Engineer Incharge.	10.00	m3
3	Dismantling R.C.C. work including breaking concrete by chiseling, wedging etc., cutting the reinforcement, debris, stacking the serviceable materials and stacking the debris up to a distance of 50 meters as directed.	10.00	m3
4	Providing uncoursed rubble masonry of trap stones in cement mortar 1:6 (Cement:sand/grit) including racking out joints when plastering is to be done, striking out joints, watering and pointing with cement mortar 1:3 on outside exposed faces, including providing header stones @ 1 header per sqm. to the full thickness of wall, providing weep holes, with 100mm dia A. C. pipes etc. all complete as directed.	160.00	m3
5	Providing cement plaster 20mm thick in a single coat in cement mortar 1:4 to concrete or brick/stone masonry surfaces in all positions with the use of step ladder and curing etc all complete as directed by Engineer In-charge.	70.00	m2
6	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-In-charge.	20.00	m3

7	Cutting or removing of existing workshop road fencing (opposite of library security kisok) for construction of box culvert on NCC road near JN of workshop road. Including cutting of angle posts, chain link fencing, barbed wire, M. S. Rod, M. S. Flat etc including using cutting wheels or gas cutter machine, LPG gas, oxygen Cylinder, Skilled labours (welder), unskilled labours, transportation including making rools or bundles of fencing and barbed wire etc and depositing at a given location as directed by Engineer incharge.	1.00	Job
8	Excavation by manually / mechanical means in earth, soil of all types, sand, gravel, soft murum/hard murum and boulders up to 1.50 meter depth including removing the excavated materials upto a distance of 50 meters beyond the site area/stacking and spreading as directed including dewatering by any means, preparing the bed for the foundation and necessary backfilling, ramming, watering, including shoring and strutting etc. all complete as directed by Engineer In-charge.	350.00	m3
9	Excavation by manually / mechanical means in earth, soil of all types, sand, gravel, soft murum/hard murum and boulders from 1.50 to 3 meter depth including removing the excavated materials upto a distance of 50 meters beyond the site area/stacking and spreading as directed including dewatering by any means, preparing the bed for the foundation and necessary backfilling, ramming, watering, including shoring and strutting etc. all complete as directed by Engineer In-charge.	300.00	m3
10	Excavation by manually / mechanical means in earth, soil of all types, sand, gravel, soft murum/hard murum and boulders from 3 to 4.5 meter depth including removing the excavated materials upto a distance of 50 meters beyond the site area/stacking and spreading as directed including dewatering by any means, preparing the bed for the foundation and necessary backfilling, ramming, watering, including shoring and strutting etc. all complete as directed by Engineer In-charge.	70.00	m3
11	Excavation for rock by mechanical means of (Hydraulic excavator)/ manual means in foundation trenches up to any depth including dressing of sides and ramming of bottoms , including getting out the excavated soil/rock and disposal of surplus excavated soils/rock as directed. (Hard rock blasting is prohibited) etc.all complete as directed by Engineer In-charge.	70.00	m3
12	Providing dry trap / rubble stone soling/ dry pitching 15cm to 20cm thick including hand packing, compacting etc all complete as directed by Engineer In-charge.	135.00	m3
13	Providing and laying cement concrete 1:11/2: 3 (M-20) using sand as fine aggregate and graded stone aggregate 20mm maximum size for foundation, footpath, coping and bedding, levelling, dewatering by any means, compaction, shuttering, finishing curing etc. complete all as directed.	50.00	m3

14	Providing and laying Ready Mix concrete of Grade M40 of trap metal for R.C.C Raft , foundations as per detailed designs and drawings or as directed including centering, formwork, cover blocks compaction, pumping the concrete at site for laying, including adding admixtures in recommended proportion as per IS 9103 to accelerate, retard the setting time of concrete, improve the workability without impairing strength and durability and finishing the surface, curing including testing and submitting reports etc. all complete as directed by Engineer In-charge. (Samples for cube testing is to be taken from each concrete batch)	60.00	m3
15	Providing and laying Ready Mix concrete of Grade M40 of trap metal for R.C.C pardi/wall/retaining wall/ as per detailed designs and drawings or as directed including centering, formwork, cover blocks compaction, pumping the concrete at site for laying, including adding admixtures in recommended proportion as per IS 9103 to accelerate, retard the setting time of concrete, improve the workability without impairing strength and durability and finishing the surface, curing including testing and submitting reports etc. all complete as directed by Engineer In-charge. (Samples for cube testing is to be taken from each concrete batch)	45.00	m3
16	Providing and laying Ready Mix concrete of Grade M40 of trap metal for R.C.C slab as per detailed designs and drawings or as directed including centering, formwork, cover blocks compaction, pumping the concrete at site for laying, including adding admixtures in recommended proportion as per IS 9103 to accelerate, retard the setting time of concrete, improve the workability without impairing strength and durability and finishing the surface, curing including testing and submitting reports etc. all complete as directed by Engineer In-charge. (Samples for cube testing is to be taken from each concrete batch)	40.00	m3
17	Providing and fixing in position tor steel TMT bar Fe 500 reinforcement of various diameters for R.C.C. beams, columns, chajjas, lintels, pardies, raft, slab, walls etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting including scaffolding as required complete.	20000.00	Kg
18	Providing and fabricating structural steel works in rolled sections like joists, channels, angles, tees, hollow sections and any other required sections etc. as per detailed designs & drawings for supports and any other work including fixing in position with connecting plates, braces and welding, riveting, bolting as necessary including painting, scaffolding etc. complete.	100.00	KG
19	Construction of granular sub-base, Grade-V having gradation as per MORTH table 400-1 (size range 75 mm to 0.425 mm) by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material using machinery to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge, collecting samples, testing as per section 900 of MORTH and submitting reports etc. completed as directed. (Note : The mix design with all relevant data to be submitted & prior approval is to be obtained from IIT Bombay. Compacted thickness will be taken for payment.)	11.00	m3

20	<p>Providing, laying, spreading and compacting graded stone aggregate having gradation as per MORTH Table 400-13 (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge including collecting samples, testing as per section 900 of MORTH and submitting reports etc. completed as directed. (Note : The mix design with all relevant data to be submitted & prior approval is to be obtained from IIT Bombay. Compacted thickness will be taken for payment.)</p>	10.00	m3
21	<p>Providing and laying hot mix hot laid 60 mm thick (compacted thickness) Bituminous concrete grading – 1 (nominal maximum aggregate size of 19 mm) having gradation as per MORTH, Table no.500.17 with VG-40 grade bitumen with minimum bitumen content 5.6% by weight of mix and hydrated lime filler @ 2% by weight of aggregate including diverting the traffic flow supplying all materials, heating bitumen & chips in hot mix plant at 150 to 160 °C bringing to site, laying BC-1 at 115 to 140 °C in proper line & level using sensor paver, thickness with suitable camber , compacting the BC-1 layer with vibratory steel wheel road roller to 8 to 10 tonnes, followed by pneumatic tire roller (PTR) of 8 to 10 tonne. Mix sample of Bituminous concrete for each day work are to tested as specified in Section 900 of MORTH etc. completed as directed. (Excluding tack coat) (Note : The mix design with all relevant data to be submitted & prior approval is to be obtained from IIT Bombay. Cost of testing of samples will be paid separately in respective item.). The minimum compaction of the layer should be 96% of Gmm (theoretical maximum specific gravity).</p>	50.00	m2
22	<p>Providing and laying hot mix hot laid 40 mm thick (compacted thickness) Bituminous concrete grading – 2 (nominal maximum aggregate size of 13.2 mm) having gradation as per MORTH, Table no.500.17 with VG-40 grade bitumen with bitumen content 6% by weight of mix and lime filler @ 2% by weight of Aggregate including diverting the traffic flow supplying all materials, heating bitumen & chips in hot mix plant at 150 to 160 °C bringing to site, laying BC-2 at 115 to 140 °C in proper line & level using sensor paver, thickness with suitable camber , compacting the BC-2 layer with vibratory steel wheel road roller to 8 to 10 tonnes, followed by pneumatic tire roller (PTR) of 8 to 10 tonne. Mix sample of Bituminous concrete for each day work are to tested as specified in Section 900 of MORTH etc. completed as directed. (Excluding tack coat) (Note : The mix design with all relevant data to be submitted & prior approval is to be obtained from IIT Bombay. Cost of testing of samples will be paid separately in respective item. The minimum compaction of the layer should be 96% of Gmm (theoretical maximum specific gravity).</p>	60.00	m2
23	<p>Providing and applying Prime coat with cationic bitumen emulsion RS1/ SS1 grade /conforming to IS:8887 or medium curing cutback bitumen MC30 conforming to IS:217 as per MORTH, section no.502 using mechanical sprayer with emulsion pressure distributor at the rate of 0.85 Kg./Sq.m on the granular surface. Including cleaning the loose soil, dust etc by brushing and brooming etc complete as directed.</p>	50.00	m2

24	Providing and applying tack coat with Cationic bitumen emulsion (RS 1) complying with IS:8887 at the rate of 0.30 kg/m ² as per MORTH, section no.503 using mechanical sprayer with emulsion/ bitumen pressure distributor on the Bituminous Surface. Including cleaning the loose soil, dust etc by brushing and brooming etc complete as directed.	60.00	m ²
25	Testing Dense bituminous macadam, Bituminous concrete and premix seal coat sample in Highway Engineering lab of IIT Bombay / VJTI / SPCE. (Marshal stability, flow, VMA, Air voids, VFB , binder content in the mix Density of the mix, quality of binder, gradation of mix. Sample of all truck load will be collected by Engineer in charge / his representative and testing as decided by Engineer in charge, including sealing the samples selected by Engineer in charge / his representative for testing, sending the sample to the above Institute, paying all testing charges and submitting test reports etc. complete as directed (payment will be made against the number of samples tested.)	2.00	Nos
26	Providing and laying in trenches 80 mm dia nominal bore I.S.I. approved 'C class galvanized iron pipe having weight as per IS specification with screwed sockets, joints, and necessary galvanised iron fittings such as backnuts, elbows, bends, tees, reducers, enlargers, plugs, etc. including providing and applying two coats of oil paint with one coat of primer including connection and disconnection etc. complete or as directed.	100.00	Rmt
27	Providing and fixing 80mm dia. nominal bore gun metal gate valve with C.I. wheel of approved quality (screwed end) with required fittings and fixtures etc. completed as directed.	1.00	Nos
28	Providing and constructing brick masonry inspection chamber 90cm x 45 cm and 45cm to 90 cm in depth including cement concrete in M-20 foundation, PCC 10 cm thick channels, brick masonry, plastering from inside and outside as required in cement mortar 1:6 and airtight heavy duty RCC cover with frame work fixed in cement concrete 1:2:4 etc all complete as directed bt Engineer In charge.	1.00	No.
29	Carefully removing the existing G.I. pipe 12mm to 80mm diameter from floor / walls / slab etc. with out damaging the structures and taking out the same outside campus including scaffolding etc. completed as directed.	100.00	Rmt
30	Refixing existing removed G.I pipe line of 12mm to 80mm diameter with required fittings and fixtures etc. completed as directed with scaffolding.	100.00	Rmt
31	Disposing debris, loose stones, boulders, concrete pieces broken etc. collected and stacked as directed including loading in trucks, transporting out of IIT Campus including obtaining approval from Government/ Private land owners for disposing off on to their approved location. The contractor will be solely responsible for disposing debrises out of campus and the debris are to be removed from site within 72 hours from stacking (30% voids will be deducted from actual measurement for debris, loose stones, boulders, concrete pieces).	100.00	m ³

32	Removing excavated earth or debris including loading in trucks and conveying to approved dumping point in IITB campus unloading spreading etc. complete. 30% voids will be deducted in case of truck measurement.	700.00	m3
33	Providing and laying Non Pressure NP-3 class (Medium duty) 900 mm dia R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete	10.00	Rmt

1) Note : This schedule of work is given for reference purpose only. Contractors are requested to quote your rates online in financial bid.

2) If you will engage labourer 20 or more any day, you have to get labour licence as per contract Regulation & Abolition Act 1970 Rule 1971, and also, you have to keep all such recored for inspection to the Principal Employer. If you will engage labour up to 10 Nos. per day, you have to file returns after completion of work as per Building & Construction Act to the Office of Regional Labour Commissioner (Central), Sion, Mumbai.

3) This work is to be executed as per the the clauses mentioned in the tender document signed by you. In addition to the existing safety clause of the tender documents a penalty of Rs. 5,000/- (per case) will be recovered from the bills of the particular work, in case any safety violations are noticed.

4) Taxes as per government notification time to time.

5) Contractor must pay GST Taxes to concern authority within 30 days time limit after receipt of payment from IIT Bombay & said record must be submitted to IIT Bombay Accounts Section, otherwise action will be taken as deemed fit.

6) If any malpractices / fraud / negligent professional behaviour or any discrepancy / inconsistency / disparity / deviation / disagreement / dissimilarity / mismatch noticed, their contract will be terminated by issuing one month notice by following legal procedure and will be blacklisted and informed to all Government Authorities and Organisations.

Superintending Engineer (I/C)

24/12/2023
 22/12
 22/12