



INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
ESTATE OFFICE, POWAI, MUMBAI, MAHARASHTRA – 400 076
TEL. 022 2576 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. 18% GST	EMD (Rs.)	Time Limit	RFX No.
1.	Providing & Laying 250mm dia new water line from Library Junction upto Hostel 12, IIT Bombay Campus. EO/A/INFRA/WKS-200/24-25	Rs.80,76,320/-	Rs 1,61,000/-	04 MONTHS	610000213

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 please contact on 022 – 2159 3001(ASC Help-desk) and queries regarding to online Bid submission please contact to +91 82915 56277/6377.

Date and time of submission of tender documents digitally are from 11.04.2025 to 16.04.2025 till 11:15 a.m. Date of opening of **Technical Bid will be 16.04.2025 at 11.30 a.m. and and Financial Bid 23.04.2025 (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 **completed works** costing not less than the amount equal to 40% of estimated cost put to tender,
OR
Two **completed works**, costing not less than the amount equal to 60% of the estimated cost put to tender
Or
One **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**.
- 4) Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank from the date of publishing of Tender.
- 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) / Mediclaim policy.
- 8) PAN card.
- 9) GST registration certificate.
- 10) Income Tax Return for last 03 years i.e. of **2021-22, 2022-23 and 2023-24**.
- 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 were empanelled under Estate Office under (2018-23) list need not have to upload Demand Draft. The contractors other than empanel list that are applying for tender need to upload a scan copy of Demand Draft / Pay Order for Rs.1,61,000/-(EMD amount) drawn in favour of "The Registrar, IIT Bombay" on online Tendering Portal.
- 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.
- 17) **Litigation history of the agency** is required to be submitted along with the application. A tender would not be awarded if any inquiry proceeding / criminal case is found pending against the agency.

Note:

Those contractors who do not have documents mentioned above from Sr. No. 1 to 17 need not apply as it is mandatory documents to qualify in technical bids.

Upload all your relevant documents in the serial order mentioned above. It is **advisable** not to make more than **03 folders of 5MB** while uploading documents.

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 bids will be valid for 6 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 may 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 an estimate are based on CPWD-DSR 2021 & rate analysis.

The contractor have to quote his own rates online against each item of work and need to select **N5 tax code** thereafter.

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

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

No queries will be entertained within 24 hours prior to the opening of the tender. We kindly request all contractors to upload their quotations well in advance of the submission deadline to ensure a smooth and timely process.

Superintending Engineer (I/C)

M. H. Patel
28/3 28/3

27/04/2025

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/INFRA/WKS-200/24-25

Name of Work : Providing and laying 250mm dia new water line from library junction upto Hostel 12, IITB Campus.

Name of the Contractor -----

Sr. No.	Name of Client	Name of Works	2021-22 (In Lakhs)	2022-2023 (In Lakhs)	2023-2024 (In Lakhs)	2024-2025 (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.

M. K. Gupta
07/04/2025

Superintending Engineer (I/C)

121
28/13 *1* *28/13*

Signature of Contractor
Name & Address in full

WORKS UNDERTAKING

EO/A/INFRA/WKS-200/24-25

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

Sub : Providing and laying 250mm dia new water line from library junction upto Hostel 12, IITB Campus.

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 04 months as mentioned in the notice inviting for short tenders.

The following information is required to be provided.

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.

	Male	Female
No. of Unskilled casual labour to be required per day.		
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

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI – 400076

EO/A/INFRA/WKS-200/24-25

ESTATE OFFICE

Name of work : Providing and laying 250mm dia new water line from library junction upto Hostel 12, IITB Campus.

Schedule of Work

Sr. No.	Description of work	Qty.	Unit
1	Excavation for foundation, trenches, Roadway etc. in earth, soil of all types, sand, gravel, soft and hard murum, soft rock etc. including removing the excavated materials up to a distance of 50 meters beyond the site of work and lift up to 1.50 meters, stacking and spreading as directed preparing the bed for the foundation and necessary dewatering using pump, backfilling, ramming, watering, including shoring and strutting, providing necessary barricading around excavated area etc. complete.	850.00	m3
2	Excavation for foundation, trenches, Roadway etc. in earth, soil of all types, sand, gravel, loose boulders, soft and hard murum, soft rock etc. beyond 1.50 meter and upto 3.00 meter depth including removing the excavated materials up to a distance of 50 meters beyond the building area, stacking and spreading as directed including dewatering using pumps, preparing the bed for the foundation and necessary backfilling, ramming, watering complete including shoring and strutting, providing necessary barricading around excavated area etc. complete..	200.00	m3
3	Excavation work in Hard rock (blasting prohibited) by mechanical means (Hydraulic excavatory) manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.	15.00	m3
4	Excavation work in Hard rock (blasting prohibited) by mechanical means (Hydraulic excavatory) manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, beyond 1.5m upto 3.0m including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.	10.00	m3
5	Cutting of road surfaces manually including bituminous macadam, soling etc. including stacking the debris upto a distance of 50 metres or spreading as directed.	3.00	m3
6	Dismantling burnt brick masonry (in cement mortar) with plaster including sorting out serviceable bricks and lowering down debris, stacking the same and debris separately upto a distance of 50 meters or spreading the debris as directed.	5.00	m3
7	Pulling down stone masonry in cement mortar with plaster / pointing without dust nuisance including sorting out the stone chips and debris separately and stacking upto distance of 50 metres or spreading the debris as directed.	10.00	m3
8	Dismantling plain cement concrete work including breaking concrete by chiselling, wedging etc., and stacking the debris upto a distance of 50 metres or spreading as directed.	10.00	m3
9	Dismantling Reinforced cement concrete work including breaking concrete by chiselling, wedging including scaffolding, covering area with jute kantan to avoid spreading of dust etc., stacking the debris upto a distance of 50 metres as directed.	1.00	m3

10	Laying dry trap / rubble stone soling of required thickness including hand packing and compacting etc. complete using IITB stone including trasporting stone from various locations from IIT campus up to working site and cutting the stone in required size as per requirement.	7.00	m3
11	Providing and laying in position 1:11/2: 3 (M20) grade cement concrete excluding the cost of centering and shuttering, using sand as fine aggregate and graded stone aggregate 20mm maximum size for foundation, coping and bedding, levelling, encasing of pipe, dewatering by any means, compaction, finishing curing including scaffolding etc. complete all as directed.	8.00	m3
12	Providing and laying in position machine batched and machine mixed design mix M-25 (1:1:2) grade cement concrete for all work upto plinth level for reinforced cement concrete work, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge including compacting, roughening the surface if special finish is to be provided, casting cubes and testing etc. completed as directed.	5.00	m3
13	Providing and fixing in position tor steel bar having grade Fe-500D or more for reinforcement of various diameters for R.C.C. footings, foundations, slabs, beams, columns, canopies, staircases, chajjas, lintels, pardies, coping, fins, dowel bars with sleeve, tie bar, any other required work etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required completed as directed.	400.00	Kg
14	Providing second class burnt brick masonry with IS approved quality well burnt bricks having in cement mortar 1:6 in superstructure including striking joints, racking out joints, watering and scaffolding complete.	11.00	m3
15	Providing uncoursed rubble masonry (using IITB stones) 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 M-20 grade concrete block header @ 1 header per sqm. to the full thickness of wall, providing weep holes, with 100mm dia P.V.C pipes including collecting and transporting stone form various locations from IIT Campus upto working site, cutting stones/ bouldres in piceses as per requirement, scaffolding etc. complete as directed.	30.00	m3
16	Providing internal cement plaster 20mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces in all positions with the use of step ladder and curing complete.	50.00	m2
17	Providing and laying in trenches 150mm dia (I.D), not less than 6mm thick, L.A class spigot & socket type pipes Ductile (spun) Iron pipes, K-9 class,, suitable for Push-on-Rubber gasket joints, in accordance with ISO 2531 : 2006 specification including unloading & stacking at site, lowering down and jointing the pipes in trenches with proper alignment and level including jointing the pipe with rubber gasket ring with all tools & equipments etc. all complete as directed by Engineer In-charge. Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	5.00	Rmt

18	Providing and laying in trenches 150mm dia (I.D), not less than 6mm thick, flanged type pipes Ductile (spun) Iron pipes, K-9 class, suitable for Push-on-Rubber gasket joints, in accordance with ISO 2531 : 2006 specification including unloading & stacking at site, lowering down and jointing the pipes in trenches with proper alignment and level including jointing the pipe with rubber gasket ring with all tools & equipments etc. all complete as directed by Engineer In-charge. Note: All pipes shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipe shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	5.00	Rmt
19	Providing and laying in trenches 250mm dia (I.D), not less than 6.8mm thick, L.A class spigot & socket type Ductile (spun) Iron pipes, K-9 class, suitable for Push-on-Rubber gasket joints, in accordance with ISO 2531 : 2006 specification including unloading & stacking at site, lowering down and jointing the pipes in trenches with proper alignment and level including jointing the pipe with rubber gasket ring with all tools & equipments etc. all complete as directed by Engineer In-charge. Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	1,035.00	Rmt
20	Providing and laying in trenches 250mm dia (I.D), not less than 6.8mm thick, flanged type pipes Ductile (spun) Iron pipes, K-9 class, suitable for Push-on-Rubber gasket joints, in accordance with ISO 2531 : 2006 specification including unloading & stacking at site, lowering down and jointing the pipes in trenches with proper alignment and level including jointing the pipe with rubber gasket ring with all tools & equipments etc. all complete as directed by Engineer In-charge. Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	10.00	Rmt
21	Providing and laying water quality cast iron specials and fittings like tees, bends, collars, reducers, tail pieces, flange etc. for pressure pipes conforming to IS : 1538, laying in correct position and alignment etc. all complete as directed by Engineer In-charge. (flanged type and S.S. type) (Joints will be paid separately) Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	150.00	Kg.
22	Providing and laying water quality Duct iron specials and fittings like tees, bends, collars, reducers, tail pieces etc. for pressure pipes conforming to IS : 1538, laying in correct position and alignment etc. all complete as directed by Engineer In-charge. (flanged type and S.S. type) (Joints will be paid separately) Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	150.00	Kg.

23	Supplying Kartar make, PN1.6 rating, C.I sluice valve 250mm dia (n.b) with flanged ends conforming to I.S.specification and IS mark embossed on the body by moulding etc. all complete as directed by Engineer In-charge. (joints and tail pieces will be paid separately). Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	4.00	Each
24	Supplying Kartar make, PN16, C.I sluice valve 150mm dia (n.b) with flanged ends conforming to I.S.specification and IS mark embossed on the body by moulding etc. all complete as directed by Engineer In-charge. (joints and tail pieces will be paid separately) Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	1.00	Each
25	Providing and fixing in position M.S. Seamless pipe 250mm dia (ID), thickness not less than 9.27mm, including unloading and stacking at site, lowering down in trenches with necessary cutting, jointing, fixing all types of specials like bends, Y, Tees, etc., with proper alignment and level & necessary welding & connecting to MCGM pipe with all tools & equipments etc. all complete as directed by Engineer In-charge. Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	10.00	Rmt
26	Providing and fixing in position M.S. Seamless pipe 150mm dia (I.D), thickness not less than 10mm including unloading and stacking at site, lowering down in trenches with necessary cutting, jointing, fixing all types of specials like bends, Y, Tees, etc., with proper alignment and level & necessary welding & connecting to MCGM pipe with all tools & equipments etc. all complete as directed by Engineer In-charge. Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	5.00	Rmt
27	Providing and fixing mild steel fabricated specials with approximately 10mm thick plate, cutting the plates, bending, welding (making from seamless pipe), fabricating in required size and shape with necessary flanges etc. with all joints water tight, providing and applying anticorrosive painting, fixing in proper line and level complete including testing hydraulically with a pressure upto 10 kg / sq. cm. etc. complete. Note: All pipes and fittings shall be hydrostatically tested for 5 Mpa pressure after laying and jointing. Pressure shall be applied internally & shall be steadily maintained for 10 seconds. The pipes and fittings shall withstand the pressure test & shall not show any sign of leakage, sweating or any kind of defects.	100.00	kg
28	Making flanged joints, 80mm upto and including 150mm dia., to double flanged C.I./D.I./M.S. pipes, specials, valves etc. including drilling holes on flanges, providing all jointing materials like rubber insertion (gasket), nut and bolt etc. all complete as directed by Engineer In-charge.	8.00	No.

29	Making flanged joints, above 150mm upto and including 300mm dia., to double flanged C.I./D.I./M.S. pipes, specials, valves etc. including drilling holes on flanges, providing all jointing materials like rubber insertion (gasket), nut and bolt etc. all complete as directed by Engineer In-charge.	10.00	No.
30	Providing and making rubber tighten joints to Cast Iron / Ductile Iron pipes and fittings 150mm dia (n.b.) including cost of rubber gasket ring etc. all complete as directed by Engineer In-charge.	8.00	No.
31	Providing and making rubber tighten joints to Cast Iron / Ductile Iron pipes and fittings 250mm dia (n.b.) including cost of rubber gasket ring etc. all complete as directed by Engineer In-charge.	15.00	No.
32	Providing and making rubber tighten joints to Cast Iron / Ductile Iron pipes and fittings 300mm dia (n.b.) including cost of rubber gasket ring etc. all complete as directed by Engineer In-charge.	4.00	No.
33	Providing and making lead caulked joints to cast iron pipes and specials including cost of pig lead, spurn yarn, fuel, labour, lead pouring, caulking etc all complete as directed by Engineer In-charge. for 150 mm dia pipe joints with not less than 3.70 Kg. lead per joint.	10.00	No.
34	Providing and making lead caulked joints to cast iron pipes and specials including cost of pig lead, spurn yarn, fuel, labour, lead pouring, caulking etc all complete as directed by Engineer In-charge. for 250 mm dia pipe joints with not less than 5.00 Kg. lead per joint.	15.00	No.
35	Providing and making lead caulked joints to cast iron pipes and specials including cost of pig lead, spurn yarn, fuel, labour, lead pouring, caulking etc all complete as directed by Engineer In-charge. for 300 mm dia pipe joints with not less than 6.8 Kg. lead per joint.	5.00	No.
36	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, rafters, purlins, railing, staircase and any other work including fixing in position with connecting plates, braces and welding, riveting, bolting as necessary including one coat of redoxide priming coat, scaffolding etc. complete.	100.00	Kg
37	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	50.00	m2
38	Laying old cement concrete interlocking paver blocks of any design/shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	50.00	m2
39	Constructing chambers of internal clear dimensions 900mm x 900mm with 230mm thick brick masonry wall in cement mortar 1:6 over abed of 150mm thick cement concrete M-20 (1:1½:3) foundation with 150mm minimum offset beyond masonry wall plastering with cement mortar 1:4, 12mm thick on internal, external and all exposed faces, finished with floating coat of neat cement including providing and fixing heavy duty FRP cover with frame of suitable size, manufactured by KK Industries or equivalent as approved by Engineer Incharge and fixing with cement concrete coping M-20 (1:1½ :3) and plastering complete including necessary dewatering, if required etc. for chambers of depth upto 1000mm.	10.00	Nos

40	Providing and fixing 900mm x 450mm rectangular Heavy duty Composite FRP manhole covers with frame for inspection chamber / manhole / gulley trap/ over storm water drain and other required places manufactured by M/s.KK or equivalent etc. all complete as directed.	2.00	Each
41	Providing and fixing 900mm x 900mm rectangular Heavy duty Composite FRP manhole covers with frame for inspection chamber / manhole / gulley trap/ over storm water drain and other required places manufactured by M/s.KK or equivalent etc. all complete as directed.	2.00	Each
42	Providing and fixing 600mm x 600mm rectangular Heavy duty Composite FRP manhole covers with frame for inspection chamber / manhole / gulley trap/ over storm water drain and other required places manufactured by M/s.KK or equivalent etc. all complete as directed.	2.00	Each
43	Providing and fixing 1200mm x 1200mm rectangular Heavy duty Composite FRP manhole covers with frame for inspection chamber / manhole / gulley trap/ over storm water drain and other required places manufactured by M/s.KK or equivalent etc. all complete as directed.	1.00	Each
44	Providing and fixing precast RCC slab for drain cover and chamber cover of required size with M-25 grade concrete and reinforced with 10mm dia main steel bars (along shorter span) and 8mm. dia distribution bars (along longer span) at 100mm center to center including making steel form work, making temporary concrete platform for casting, compaction using surface vibrator, with two lifting hooks of 6mm dia / holes of 25mm dia finishing the surface with smooth cement finish curing, placing the precast slab in proper position etc. complete as directed.	1.00	m3
45	Providing and fixing Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, coping, raft etc.	10.00	m2
46	Providing and fixing Centering and shuttering including strutting, propping etc. and removal of form for all heights :Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	25.00	m2
47	Providing and fixing Centering and shuttering including strutting, propping etc. and removal of form for all heights :Suspended floors, roofs, landings, balconies and access platform	5.00	m2
48	Removing soling without dust nuisance including sorting out the stone chips and debris separately and stacking upto distance of 50 metres as directed.	10.00	m3
49	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.)	5.00	m3
50	Providing and fixing C.I. double acting air valve 80mm diameter of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces,tapers etc if required will be paid separately)	1.00	No.

51	Providing and fixing C.I. double acting air valve 100mm diameter of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately)	1.00	No.
52	Providing and fixing heavy quality G. I. flanges with threaded hole at center (flange and bush assembly) for fixing G.I. pipe with screwed joints, jointing with 80 mm dia C.I. flanges of flanged pipe / specials of main line including jointing using rubber packing, nut bolt etc. and connecting the other end with new / old G.I. pipe line all complete as directed.	1.00	No.
53	Providing and fixing heavy quality G. I. flanges with threaded hole at center (flange and bush assembly) for fixing G.I. pipe with screwed joints, jointing with 50 mm dia C.I. flanges of flanged pipe / specials of main line including jointing using rubber packing, nut bolt etc. and connecting the other end with new / old G.I. pipe line all complete as directed.	1.00	No.
54	Providing and laying in trenches 50 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 trenching and refilling etc. complete or as directed.	5.00	Rmt
55	Providing and laying in trenches 65 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 trenching and refilling etc. complete or as directed.	5.00	Rmt
56	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 trenching and refilling etc. complete or as directed.	5.00	Rmt
57	Providing and fixing 50mm 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.	2.00	Nos
58	Providing and fixing 65mm 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.	2.00	Nos
59	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.	2.00	Nos
60	Providing lowering, and laying 300mm dia NP2 class R.C.C. spun pipes conforming to IS 458 of 300 mm dia (n.b) with necessary collars, laid to correct grade, alignment and levels at all depth including cutting to required length, jointing with hemp yarn and cement mortar 1:2 caulking the joints, finishing, curing etc. complete as directed.	5.00	Rmt
61	Providing lowering, and laying NP2 class R.C.C. spun pipes conforming to IS 458 of 450 mm dia (n.b) with necessary collars, laid to correct grade, alignment and levels at all depth including cutting to required length, providing and applying a coat of black bituminous paint to inside surface, water tight jointing with hemp yarn and cement mortar 1:1 caulking the joints, finishing, curing, testing the joints hydraulically etc. complete as directed.	5.00	Rmt

62	Providing lowering, and laying NP2 class R.C.C. spun pipes conforming to IS 458 of 600 mm dia (n.b) with necessary collars, laid to correct grade, alignment and levels at all depth including cutting to required length, providing and applying a coat of black bituminous paint to inside surface, water tight jointing with hemp yarn and cement mortar 1:1 caulking the joints, finishing, curing, testing the joints hydraulically etc. complete as directed.	5.00	Rmt
63	Providing, fabricating and fixing Chequered Plate of required thickness for steps and any other work including in required size, welding, fixing necessary supporting M.S frame work with the plate including one coat of steel primer and two coat of SEP etc. completed as directed. (M.S work will be paid separately)	100.00	Kg
64	Providing and laying dry trap / rubble stone pitching to the sloping side in average 200 to 300mm thickness including cuffing, dressing and levelling the undulation of sloping surface, making uniform slope in line and level, laying stone pitching in line level etc. including removing loose earth, cleaning compacting the base providing and fixing 100mm dia. A.C. pipe for weep holes at in 1m. c/c in staggered position if required.	250.00	m2
65	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 debris 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).	26.00	m3
66	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.	89.00	m3

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 record 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 document a penalty of Rs.5,000/- per case will be recovered from the bills of the particular works, in case any such safety violations are noticed.

4) 01% amount will be deducted from the bills for safety related measures which will be reimburse along with the final bill.

5) Taxes as per government notification time to time.

6) 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.

7) 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)

Signature
28/12
28/12