



INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
ESTATE OFFICE, POWAI, MUMBAI, MAHARASHTRA – 400 076
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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.	Term contract for plumbing, carpentry and miscellaneous maintenance work in hostel no. 12, 13 & 14 and hostel area for one year period. EO/A/HOSTEL/WKS-144/22-23	Rs.62,04,471/-	Rs.1,25,000/-	One year	610001213

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.**

Date and time of submission of tender documents digitally are from 14.11.2022 11.00 a.m. to 25.11.2022 upto 11.00 a.m. Date of opening of Technical Bid will be 25.11.2022 at 11.30 a.m. Date of opening of Financial Bid will be on 30.11.2022(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) 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 :
 - i) Three similar completed works costing not less than the amount equal to 40% of estimated cost put to tender,
OR
 - ii) Two similar completed works, costing not less than the amount equal to 60% of the estimated cost put to tender
OR
 - iii) One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.
ANDOne 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 have not submitted fixed EMD against the new enlistment under the Estate Office are requested to upload scan copy of DD / Pay Oder i.e. 2% EMD (Rs.1,25,000/-). 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.

Dr. S. S. S. S.
14/11/2022

Superintending Engineer (I/C)

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 work 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 will be rejected.

The available bid capacity will be calculated based on the above information received from the agencies & the agencies those who are having sufficient bid capacity, i.e. bid capacity more than the estimate value, will only be considered. The tender of agencies having less bid capacity will be rejected and the accepted agency financial bid will be opened.

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 SOR 2016 and ongoing market rates & rate analysis.

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

The statement of works carried out in last three years and work in hand is to be submitted along with the financial bid for calculating Bid Capacity for works with estimated cost more than Rs. 20 lakhs. Tenders from contractors with insufficient bid capacity will be rejected.

The information in respect of manpower for above said work must be given in undertaking the otherwise tender will be rejected.

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.

Dr. S. S. S. S.
14/11/2022

Superintending Engineer (I/C)

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/HOSTEL/WKS-144/22-23

Name of Work : Term contract for Plumbing, Carpentry & Miscellaneous maintenance work in Hostel No.12,13 & 14 and Hostel area for one year period.

Name of the Contractor -----

Sr. No.	Name of Client	Name of Works	2019-20 (In Lakhs)	2020-21 (In Lakhs)	2021-22 (In Lakhs)	2022-23 (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.

Subhrajit
14/11/2022

Superintending Engineer (I/C)

[Signature]
[Signature]

Signature of Contractor
Name & Address in full

WORK UNDERTAKING

EO/A/HOSTEL/WKS-144/22-23

ESTATE OFFICE

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

Sub : Term Contract for plumbing,carpentry & Miscellaneous maintenance work in Hostel No.12,13 & 14 and Hostel area for One year period.

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 01 Year as mentioned in the notice inviting for short tenders.

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.

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.

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

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

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The Mandays required for completion of work. :

Thanking you,

Yours faithfully,

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

Name of Work :- Term contract for Plumbing, Carpentry & Miscellaneous maintenance work in Hostel No.12, 13 & 14 and Hostel area for One year period.

Schedule of work

Sr. No.	Description of work	Quantity	Unit
1	<p>Attending all the plumbing, carpentry and associated problems, complaints etc. in Hostel No.12, 13 & 14 and in any other Hostels / Buildings as directed by Engineer In-charge in case of emergency by engaging a group of Plumber and carpenter each with not less than 5 years experience in plumbing and carpentry work, helper for both plumber and carpenter for day regular shift duty with minimum knowledge in plumbing and carpentry work and a supervisor of 10th standard pass having knowledge of civil works with minimum 3 years. The labourers are of age not less than 18 years and not more than 60 years and the Contractor should follow the Contract labour (Regulation & Abolition) Act.1970 and labourers are to be paid monthly payment by following all formalities under contract labour act 1970, Minimum wages Act, etc. Arrangements shall be made to attend all the complaints from Hostel management and students, attend all the works as instructed by Engineer In-charge or his representative. Also the supervisor has to do daily inspection of toilet blocks, Kitchen, Mess area, Pump house, plumbing duct, terrace, doors, windows, cupboards, cots any wooden, aluminium furniture work, carpentry related work etc. and to rectify the defects and deficiencies noticed and to make sure that the entire system is in clean and working condition. The scope of work includes all the plumbing and carpentry works, periodical inspection of buildings, clearing of blockages up to the 1st chamber out side the building, fixing of loose fittings and fixtures with new screws, nails and brackets, providing and fixing of new washers for defective bib taps, stop cocks, pillar taps, ball floats etc., and replacement of damaged fittings and fixtures supplied under Item No.2 or supplied by Institute, applying grey cement / white cement to fix jallis and filling cracks/opening etc. complete including depositing all the old & damaged items and fittings, fixtures, doors, windows, frame & shutters etc. to Estate Stores through the Engineer In-charge etc. all complete as directed.</p> <p>(i) The worker's pattern mentioned in this Item - 01 Plumber, 01 Carpenter and 01 Helper for each Plumber & Carpenter and 01 Supervisor in regular day shift (9.00a.m. to 6.00p.m.) as per direction of Engineer In-charge.</p> <p>(ii) If any one of the five is absent in a day and no substitute is provided a penalty equal to 30% rate of this Item per day will be deducted from that day's payment and if any two of the five is absent in a day and no substitute is provided a penalty equal to 70% rate of this Item per day will be deducted from that day's payment and if any three out of the five is absent and no substitute is provided, a penalty equal to the full rate of this Item per day will be deducted against that day's payment.</p> <p>(iii) If all the five workers are absent in a day no payment will be given for that day and an additional penalty equal to 50% rate of this Item will be recovered from the bill.</p> <p>(iv) All the complaints related to nonavailability of water due to internal defects, water wastage such as tap / valve leakage, external / internal blockage etc are to be attended and rectified in the same day of receiving complaints / reports.</p> <p>(v) All the complaints / reports required replacement of items are to be attended and completed within 48 hours of receiving the complaint / report.</p> <p>(vi) Any delay in attending the complaints beyond the time frame mentioned in Sr. No. iv & v without a valid reason which is beyond the control of the contractor with the arrangements in this Item and convinced by the Engineer In-charge or his representative will be charged with a penalty of Rs.500/- per complaint per day. This penalty is independent of the penalties mentioned in Sr. No. ii & iii.</p> <p>(vii) Scrap/damaged/old material removed from the site to be deposited to Estate store through Engineer In-charge and certificate from Estate Store is to be submitted at the time of each running bill and final bill.</p>	317.00	Per Job

Sr. No.	Description of work	Quantity	Unit
2	Supplying of the following materials as and when required and for installing / fixing through the team available as per Item No.1. Note :- Brands of material as per attached list and as directed by Estate Office. a) Back Seat for European W.C. 19" x 14" x 16" (height)	30.00	No.
	b) Ball Cock (50 mm dia and PVC float)	6.00	No.
	c) CP Bib Tap 15mm, Jaguar make	36.00	No.
	d) CP Stop cock 15mm, Seiko/Techno make	12.00	No.
	e) C.P. Pillar tap of long neck 15mm, Jaguar make	24.00	No.
	f) C.P. Bib Tap 15mm, Seiko/Techno make	24.00	No.
	g) C.P. Bottle trap (Jaquar)	30.00	No.
	h) PVC waste pipe	60.00	No.
	i) C.I. Cover with frame (Gully trap)	12.00	No.
	j) C.I. Nahani Trap 100 mm dia	12.00	No.
	k) PVC Nahani Trap 100 mm dia	12.00	No.
	l) PVC Pipe 150 mm dia	100.00	Rmt
	m) PVC Pipe 100 mm dia	100.00	Rmt
	n) PVC Pipe 75 mm dia	100.00	Rmt
	o) PVC Pipe 50 mm dia	100.00	Rmt
	p) PVC Pipe 40 mm dia	50.00	Rmt
	q) Cement	10.00	Bag
	r) White Cement	250.00	Kg
	s) Chromium plated aluminium towel rod (16mm dia. 750 mm long)	50.00	No.
	t) Flush Tank 10 Ltr with Accessories (Parryware / Flush line or approved make)	100.00	No.
	u) G.I. Pipe 15 mm dia heavy type	50.00	Rmt
	v) G.I. Pipe 20 mm dia heavy type	50.00	Rmt
	w) G.I. Pipe 25 mm dia heavy type	100.00	Rmt
	x) G.I. Pipe 32 mm dia heavy type	50.00	Rmt
	y) G.I. Pipe 40 mm dia heavy type	100.00	Rmt
	z) G.I. Pipe 50 mm dia heavy type	100.00	Rmt
	aa) G.I. Pipe 65 mm dia heavy type	10.00	Rmt
	ab) G.I. Union 15 mm	10.00	Nos.
	ac) G.I. Union 20 mm	10.00	Nos.
	ad) G.I. Union 25 mm	10.00	Nos.
	ae) G.I. Union 32 mm	10.00	Nos.
	af) G.I. Union 40 mm	10.00	Nos.
	ag) G.I. Union 50 mm	20.00	Nos.

Sr. No.	Description of work	Quantity	Unit
	ah) G.I. Union 65 mm	10.00	Nos.
	ai) G.I. Coupling 15 mm	10.00	Nos.
	aj) G.I. Coupling 25 mm	10.00	Nos.
	ak) G.I. Coupling 50 mm	10.00	Nos.
	al) G.I. Elbow 15 mm	10.00	Nos.
	am) G.I. Elbow 20 mm	10.00	Nos.
	an) G.I. Elbow 25 mm	10.00	Nos.
	ao) G.I. Elbow 50 mm	20.00	Nos.
	ap) G.I. Elbow 65 mm	10.00	Nos.
	aq) G.I. Nipple 50 mm	20.00	Nos.
	ar) G.I. Nipple 65 mm	10.00	Nos.
	as) G.I. Tees 15 mm	10.00	Nos.
	at) G.I. Tees 20 mm	10.00	Nos.
	au) G.I. Tees 25 mm	10.00	Nos.
	av) G.I. Tees 50 mm	20.00	Nos.
	aw) G.I. Tees 65 mm	10.00	Nos.
	ax) Gun Metal Stop cock 15 mm	1.00	No.
	ay) Gun Metal Stop Cock 20 mm	1.00	No.
	az) Mirror	50.00	Sqm
	ba) PVC "YY" Junction 110 mm	2.00	No.
	bb) PVC "YY" Junction 75 mm	2.00	No.
	bc) PVC slotted Cowl 75mm	1.00	No.
	bd) PVC Socket and Coupling 110mm	1.00	No.
	be) PVC Socket and Coupling 75mm	1.00	No.
	bf) Salt glazed S. W. gully trap	10.00	No.
	bg) Socket for 12/15 mm tap	1.00	No.
	bh) Socket for 20/25 mm tap	1.00	No.
	bi) Socket for 32 mm tap	1.00	No.
	bj) Socket for 40 mm tap	1.00	No.
	bk) Socket for 50 mm tap	1.00	No.
	bl) Spun Yarn	10.00	Kg.
	bm) Stainless Steel Sink 60 x 45 cm & 20 cm depth	1.00	No.
	bn) Stone ware pipe 150 mm dia	20.00	Rmt
	bo) Stone ware pipe 225 mm dia	20.00	Rmt
	bp) Wash Basin White Glazed 55 x 40 cm	12.00	No.
	bq) WC Pan white glazed 23" (Orisa)	6.00	No.

Sr. No.	Description of work	Quantity	Unit
	br) WC Pan White Glazed 580 mm European type	12.00	No.
	bs) WC Pan wall hung	5.00	No.
	bt) Wheel Stop Tap Gun Metal 25mm	4.00	No.
	bu) Wheel Stop Tap Gun Metal 40mm	4.00	No.
	bv) Wheel Stop Tap Gun Metal 50mm	4.00	No.
	bw) Wheel Stop Tap Gun Metal 65mm	4.00	No.
	bx) Non Return Valve 32mm	2.00	No.
	by) Non Return Valve 40mm	2.00	No.
	bz) Non Return Valve 50mm	2.00	No.
	ca) White glazed half stall urinal (Cera / American standard/Parryware/)	6.00	No.
	cb) White glazed full stall urinal (Cera / American standard/Parryware/)	6.00	No.
	cc) C.P Spreader (For gents Urinal)	50.00	No.
	cd) Copper Connector – 300mm	50.00	No.
	ce) Double Nipple for Urinal	50.00	No.
	cf) Teflon tape	100.00	No.
	cg) Cap washer for connector	25.00	No.
	ch) Two Way Bib Tap (Seiko)	20.00	No.
	ci) Jet Spray / Hand Spray	200.00	No.
	cj) Jet Spray Pipe connection- 1 meter long	200.00	No.
	ck) C. P. Jet Spray / Hand Spray Stand	200.00	No.
	cl) Waste coupling – 1½" dia full threaded	50.00	No.
	cm) PVC Connection (1/2)"- for wash basin-200 mm long	200.00	No.
	cn) PVC Connection (1/2)"- for flush tank-600 mm long	200.00	No.
	co) Stainless Steel Jali 4" for nahani trap with / without hole	200.00	No.
	cp) Sink cock for mess (Seiko make)	10.00	No.
	cq) Shower Arm	20.00	No.
	cr) Shower tube	20.00	No.
	cs) Flush Tank washer	200.00	No.
	ct) Flush button set for flush tank	200.00	No.
	cu) Push cock for urinals(Jaguar make)	50.00	No.
	cv) Angle cock (Seiko/Techno)	50.00	No.
	cw) Aluminium Window handle	10.00	No.
	cx) Aluminum tower bolt 75mm	20.00	No.
	cy) Butt Hinges brass oxidized 100mm	200.00	No
	cz) Butt Hinges brass oxidized 125mm	100.00	No
	da) Hyper hydraulic door closer (ISI Mark)	24.00	No.

Sr. No.	Description of work	Quantity	Unit
	db) Fevicol	5.00	Kg.
	dc) Glass plain 5.5mm	10.00	Sqm
	dd) Glass bajri 5.5mm	10.00	Sqm
	de) 3mm acrylic sheet	1.00	Sqm
	df) 5mm acrylic opaque sheet	5.00	Sqm
	dg) 6mm acrylic opaque sheet	5.00	Sqm
	dh) 5mm acrylic plain sheet	10.00	Sqm
	di) Godrej Night latch	2.00	No.
	dj) Brass handle 75mm	10.00	No.
	dk) Brass handle 125mm	24.00	No.
	dl) Brass hinges 75mm	60.00	No.
	dm) Brass hinges 125mm	60.00	No.
	dn) PVC Gasket Lining	20.00	Rmt
	do) Rubber Lining	20.00	Rmt
	dp) Tower bolt 100mm brass oxidized	100.00	Nos.
	dq) Tower bolt 150mm brass oxidized	50.00	Nos.
	dr) Tower bolt 200mm brass oxidized	100.00	Nos.
	ds) S.S.304 fly proof mesh	200.00	Sqm
	dt) S.S. Aldrop 250mm	50.00	Nos.
	du) Capsule door closer	50.00	Nos.
	dv) 'D' Type handle 125mm	50.00	Nos.
	dw) 'D' Type handle 150mm	50.00	Nos.
	dx) Bib cock with head adapter for washing machine	20.00	Nos.
	dy) Concealed Lock	10.00	Nos.
	dz) PVC bearing	20.00	Nos.
	ea) Rubber gasket	50.00	Rmt
	eb) PVC lining	50.00	Rmt
	ec) Aluminium decorative grill	20.00	Sqm
	ed) ACP Sheet 4mm thick	20.00	Sqm
3	Removing the old cement concrete or any type of tiled flooring including leveling the surface, cleaning the site including sorting out serviceable tiles and stacking the same and debris disposing off up to a distance of 50 meters / at suitable location etc. all complete as directed by Engineer In-charge.	200.00	Sqm
4	Removing the existing waterproofing treatment such as I.P.S./ Brick bat coba etc from toilet block, terrace without damage to structure, leveling & cleaning the surface for providing new specialized waterproofing treatment etc. all complete as directed by Engineer In-charge.	100.00	Sqm

Sr. No.	Description of work	Quantity	Unit
5	Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris up to a distance of 50 metre or spreading in the compound and cleaning the site etc. all complete as directed by Engineer In-charge.	200.00	Sqm
6	Carefully exposing the existing damaged RCC members like columns, beams, slabs, chajjas, paradis, fins etc in patches or any length by using electrical cutting tools / manually means up to any depth till the corroded reinforcement will be opened allround without damaging brickwork, plaster in the vicinity, cleaning, stacking the debris with in 50 meter for taking away out of IIT campus, cleaning the site etc. complete, including covering the furniture with plastic sheet while exposing concrete including scaffolding / step ladder etc. all complete as directed. Note: Proper tools to be used for removal of concrete. The area in vertical plane shall be measured.	50.00	Sqm
7	Old reinforcement treatment providing and applying reinforcement treatment, comprising of following operations. · Cleaning the reinforcement from all sides by using wire brush, tools etc. · Application of rust converter (Alkaline base) as per manufacturers specification, cleaning if required as directed including scaffolding etc. all complete as directed. Actual consumption of Alkaline base converter shall be measured for payment on weight basis. Challans & Invoice of authorized dealer will be verified.	10.00	Kg.
8	Providing and applying an effective bond coat of Polymer (SBR) approved by IITB and cement in the proportion of 1:1 using brush in multiple coats as required to accommodate the whole thickness of polymer modified mortar wherever required on the surface of old concrete or repaired concrete. Polymer (SBR) of approved manufacturer should have the following properties: Suspended solid particle should not be less than 40%-specific gravity should not be more than 1.01-PH should not be less than 8.5. Note : The actual consumption of polymer shall be measured for payment on weight basis. Challans & Invoice of authorised dealer will be verified.	100.00	Kg.
9	Providing & placing in position readymix polymer mortar manufacture by Dr. Fixit, Sunanda, Roff, MC Bouchmey, Chembond and approved and adding water in the proportion of 1:0.14 (polymer mortar: water) in prepared grooves / cracks of the concrete court in layers as directed including mixing the polymer mortar with water using forced action mixer mild curing with water for 3 days etc. all complete as directed. Payment will be paid for the actual quantity of polymer mortar PX used on weight basis. Challans & Invoice of authorised dealer will be verified.	2300.00	Kg.
10	Providing & laying cement based water proofing treatment to terrace / toilet block 110mm-250mm thick/as required brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M 1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer 3 days, applying cement slurry over this layer joints of brick bats with C.M. 1:3 admixed with approved water proofing compound and finally top finishing with average 20mm thick layer of same mortar finishing the surface smooth with cement slurry admixed with approved water proofing compound including all leads, lifts, curing etc. Covering 10 years' guarantee on requisite (Rs-500/-)non- judicial stamp paper etc. all complete as directed by Engineer In-charge.	5.00	Cum
11	Providing waterproof bedding for flooring of bath and W.C. 25mm thick in cement mortar 1:3 using waterproofing compound 2% by weight of cement including leveling, curing etc. all complete as directed by Engineer In-charge.	25.00	Sqm

Sr. No.	Description of work	Quantity	Unit
12	Providing waterproof plaster in w. c. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 2% by weight of cement etc. all complete as directed by Engineer In-charge.	25.00	Sqm
13	Providing second class burnt brick masonry with best available approved quality well burnt bricks in cement mortar 1:4 in half brick thick wall including providing RCC patli M-20 concrete (1:1½:3), 100mm x 100mm to the full length of wall at every one meter height, using two numbers 8mm dia tor steel reinforcement, scaffolding, racking out joints and watering etc. all complete as directed by Engineer In-charge.	5.00	Sqm
14	Providing second class burnt brick masonry with best available approved quality well burnt bricks in cement mortar 1:6 in superstructure including striking joints, racking out joints, watering and scaffolding etc. all complete as directed by Engineer In-charge.	8.00	Cum
15	Providing and fixing coloured ceramic tiles of size as per existing pattern or as directed and of approved brand about 5 to 6mm thick for dado and skirting in required position including plastering of required thickness in CM 1:4, filling joints with neat cement slurry mixed with pigment to match the colour of tiles, curing, rubbing and cleaning etc. all complete as directed by Engineer In-charge.	50.00	Sqm
16	Providing and laying approved non skid coloured ceramic tiles of size as per existing pattern or as directed and of approved brand 5 to 6mm thick for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints with neat cement slurry mixed with approved shade of pigment to match the colour of tiles, curing and cleaning etc. all complete as directed by Engineer In-charge.	50.00	Sqm
17	Providing and laying Rectified and vitrified mirror finish non skid decorative type tiles of size 600mm X 600mm and 8 to 10mm thick of approved make, shade and pattern and having water absorption between 0.08% to 2.5% for flooring / skirting in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints with cement slurry, curing and cleaning etc all complete as directed by Engineer In-charge.	50.00	Sqm
18	Providing and laying polished Kotah stone slab 25mm to 30mm thick for flooring in one piece on bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. all complete as directed by Engineer In-charge.	50.00	Sqm
19	Providing and laying cement concrete flooring 1:2:4, 40mm thick with 10mm nominal size stone aggregate finished with a floating coat of neat cement including cement slurry, curing etc. all complete as directed by Engineer In-charge.	20.00	Sqm

Sr. No.	Description of work	Quantity	Unit
20	Providing and erecting single scaffolding for painting, water supply and sanitary pipe line repair works using bamboo male of 1" to 1-1/2 dia. Vertical and Horizontal at 1.20mtr. And necessary cross bamboos and short bamboos for supports from bldg. By taking necessary holes in wall and remaking good the damages after completion of work,including coir and all necessary material including conveying loading,unloading including removing the same after completion of work by taking necessary precautions and measures of labour etc. all complete as directed by Engineer In-charge.	80.00	Sqm
21	Providing and erecting double scaffolding for external plaster and other repair works using bamboo male of 1" to 1-1/2" dia. Vertical and horizontal at 1.20mtr to 1.8m and necessary cross bamboos and short bamboos for supports from building and providing and fixing planks by taking necessary holes in walls and remaking good the damages after completion of work including coir and all necessary material including conveying loading unloading including removing the same after completion of work by taking necessary precautions and safety measures of labour etc. all complete as directed by Engineer In-charge.(Irrespective of duration of scaffold, the item will be paid only once)	200.00	Sqm
22	Providing cement plaster 12mm thick in single coat in cement mortar 1:4 to concrete or brick surfaces in all positions including curing, scaffolding and curing etc. all complete as directed by Engineer In-charge.	100.00	Sqm
23	Providing cement plaster 20mm thick in a single coat in cement mortar 1:4 to concrete or brick surfaces in all positions including curing, scaffolding in fine sand etc. all complete as directed by Engineer In-charge.	100.00	Sqm
24	Providing and applying white cement based Birla make wall care putty with uniform thickness over the existing internal cement plaster in proper line / level including preparing the wall surface for the application of wall care putty etc. all complete as directed by Engineer In-charge.	500.00	Sqm
25	Applying external waterproof plaster using factory made ready mix polymer cement mortar plaster. i) Providing and rendering the prepared surfaces with new sand faced cement plaster of minimum 20mm thick in two coats by using factory made ready mix polymer modified cement plaster waterproof plaster of approved make (M/s Wall Plast, M/s Fare-Matt) or equivalent. ii) The base coat of minimum 12mm thick using above ready mixed polymer modified mortar plaster to proper plumb level & line including making the plaster surface rough (all as per the manufacturer's specifications) to receive the top finish coat. iii) Applying top/finish coat plaster of minimum 8mm thickness with similar ready mix polymer cement mortar plaster finishing in perfect plumb, line & level so as to obtain fine sand grain finish by using branded approved variety sponge or using mechanised devise including adding additional required quantity of cement for managing richer mix preferable ordinary portland cement 43 grade variety of approved brand at no extra cost, doing regular curing for minimum 7 days. iv) The rate shall include providing double scaffolding as per the specifications prescribed at above upto the required height and doing work at all heights and lifts.	100.00	Sqm
26	Providing & fabricating structural steel works in rolled sections like channels, angles, tees, M.S. plate, pipe, flats etc. as per site requirement including fixing in position with connecting plates, braces, and welding as necessary etc. including painting with one coat of red oxide primer and two coats of S.E.P etc. all complete as directed by Engineer In-charge.	1000.00	Kg

Sr. No.	Description of work	Quantity	Unit
27	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.	50.00	cum
28	Providing dry trap / rubble stone soling 15cm to 20cm thick including hand packing, compacting etc all complete as directed by Estate Engineers.	2.00	Cum
29	Providing and laying in situ plain cement concrete 1:1 ½ :3 (M-20) of trap metal for foundation and bedding including bailing out water manually, formwork, compacting and curing etc. all complete as directed.	2.00	Cum
30	Providing temporary steel supports such as tubular steel props 50mm dia, as required for supporting system till the repaired work of the beam, column, slab, chajja, etc. work completed in all respects as directed and when required in any floor of any height inside and outside of the building and removing the supporting system as directed without damaging the structure etc. all complete as directed.	10.00	No.
31	Providing and fixing mild steel grill work for windows, ventilators as per instructions including necessary welding and painting with one coat of metal primer and two coats synthetic enamel paint including scaffolding etc. all complete as directed.	100.00	Kg.
32	Providing and laying colour granite slabs of 16 to 20mm thick of approved quality colour and cladding, on a bed of 1:4 cement mortar including moulding of filling joints with white cement to match colour of slab, curing polishing etc. all complete as directed.	10.00	Sqm
33	Disposing debris, loose stones, boulders, concrete pieces, broken and dry leaves etc. collected and stacked as directed including loading in trucks, transporting out of IIT Campus including obtaining permission of BMC competent authorities for disposing off on to their approved locations. The debris are to be removed from site within 7 days from stacking. (16% voids will be deducted from actual measurement for debris, 30% voids will be deducted from actual measurement for loose stones, boulders, concrete pieces and 40% voids will be deducted from actual measurement for dry leaves) etc. all complete as directed.	5.00	Cum
34	Providing and fixing 20mm thick cement bonded wood particle board (bison panel) for chajja, ceiling at any floor, providing suitable hole for fixing nuts and bolts including making suitable groove on plaster and vatta, proper slope double scaffolding wherever required etc. all complete as directed.	50.00	Sqm
35	Providing and applying one priming coat of IITB approved brand, to wood work and steel works, including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering etc. with the use of stepladder etc. all complete as directed.	200.00	Sqm
36	Providing and applying two coats of synthetic enamel paint of Asian / Berger /ICI/Jenson & Nicholson,/ Goodlass / Nerolac approved brand & desired shade to old and new wood work and structural steel works with the use of stepladder, including preparing the surface by scrapping, filling all cracks / holes with lambi / palti, leveling the surface, cleaning etc. all complete as directed.	200.00	Sqm

Sr. No.	Description of work	Quantity	Unit
37	Providing and applying one coat of acrylic primer and two coats of exterior acrylic latex paint of approved colour & shade of IITB approved manufacturer i.e. Berger, Asian, Killick Nixon, Goodlass, Nerolac, ICI, Decocem and as per manufacturer's specification on old or new plastered surface over concrete / brickwork as per manufacturer's specification including scaffolding and cleaning the surface thoroughly with coir brush, watering the surface etc. complete including covering the floor, window glass with plastic sheet etc. all complete as directed.	200.00	Sqm
38	Providing and applying one coat of seal cement primer of IITB approved brand including scrapping the surface of walls/ceiling, cleaning the surface with the use of stepladder including leveling the entire surface etc all complete as directed.	2,500.00	Sqm
39	Providing and applying Acrylic oil bound distemper of IITB approved manufacturer and of desired colour and shade to old / new surfaces in two coat including scaffolding, preparing the surfaces (excluding priming coat) etc all complete as directed.	2,500.00	Sqm
40	Providing hoisting and fixing in position ISI mark plastic storage water tank of approved make (Sintex/Infra make) on roof of Mess / Kitchen / building at any height with all fittings & fixtures, fixing the M.S.ladder with concrete foundation & steel covers with locking arrangement as per approved B.M.C pattern, copper ball float of 1" size, connecting the tank (inlet and outlet) with the existing water line, providing and fixing over flow pipe 25mm dia with mosquito proof brass coupling using required fitting / fixtures etc all complete as directed by Engineer In-charge. (The capacity of tanks will be of 1000/2000/5000 liters)	1,000.00	Liter
41	Relaying old available paver blocks in specified pattern for floor and steps etc. including 50mm thick compacted bed of crushed sand in specified decorative designs with blocks of available colour and pattern including filling the joints with crushed sand, compacting blocks with mechanical means after laying and cleaning etc. all complete as directed by Engineer In-charge.	50.00	Sqm
42	Providing and constructing Brick Masonry Inspection Chamber 90 cm x 45 cm and 90 cm to 150 cm in depth including necessary excavation, cement concrete in M-20 foundation, 23 cm thick channels, brick masonry, plastering from inside and outside as required in cement mortar 1:3 and airtight RCC cover with frame work fixed in cement concrete 1:2:4 etc all complete as directed by Engineer In-charge.	1.00	No.
43	Providing and constructing Brick Masonry Inspection Chamber 90 cm x 45 cm and 45 cm to 90 cm in depth including necessary excavation, cement concrete in M-20 foundation, 23 cm thick channels, brick masonry, plastering from inside and outside as required in cement mortar 1:3 and airtight RCC cover with frame work fixed in cement concrete 1:2:4 etc all complete as directed by Engineer In-charge.	1.00	No.
44	Providing and fixing flush door shutters 35mm thick as per existing pattern or as per site requirements non decorative type with core of block board construction with frame of 1 st class hard wood and well matched commercial sunmica on both faces of shutter with heavy duty Brass butt hinges powder coated finished of required size 100mm x 25mm with necessary screws, P/F 300mm long heavy duty stainless steel aldrop, Brass handles 150mm for each shutters, 10" long stainless steel toddy bar (tadi patti) 1 no and other require fittings and fixtures etc.all complete as directed by Engineer In-charge.	10.00	Sqm

Sr. No.	Description of work	Quantity	Unit
45	Providing and fixing in position three track aluminium sliding windows using sections of size 92 mm x 31mm x 1.3 mm (0.933kg/mtr) thick for bottom, sides and top. The shutter comprising of bottom and top member of size 40 mm x18 mm x 1.25 mm (0.417kg/mtr) thick , interlocking section of size 40 mm x 18 mm x 1.10 mm (0.469kg/mtr) thick and handle section of size 40mm x 18 mm x 1.25 mm (0.417kg/mtr) thick including providing and fixing 5.50mm thk. glass in two shutters and S.S 304 fly proof mesh in one shutter using rubber gasket, approved quality minimum two nos.PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, provision for fixing A.C. units (if required) etc. complete as directed by Engineer in charge.(Note: All aluminium sections and fitting are 15 micron anodized/ powder coated).	10.00	Sqm
46	Providing and fixing 15 micron anodized / powder coated aluminum section of various sizes and shape including fixing it in proper position with screws for making frames including drilling holes etc all complete as directed by Engineer Incharge.	20.00	Kg
47	Providing & fixing co-extruded UV protected Microcell panel System 12mm thick (minimum) Polycarbonated UV installed sheets of Danpalon / SABIC / CE / Tuflite make of approved colour with antiglare softline colour on one side to prevent glare in curve or plane shape including all fittings and fixtures such as snap on connector with grip lock double tooth locking mechanism, mill finish aluminium U profile end cap, required flashing at the junction of wall/concrete surface and sheets and other required fittings as per manufacturer specifications etc. all complete as directed by Engineer Incharge.	10.00	Sqm
48	Providing and fixing precoated galvanised iron profile sheets 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steelgrade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required etc. all complete as directed.	10.00	Sqm
49	Providing, making and fixing fully opaque aluminium partition using 63mm x 37mm x 1.5mm thick (15 micron / powder coated) anodized aluminium partition section fitted with 20mm thick wood particle board of novapan or approved make, including providing with all necessary fittings and fixtures, fixing glazing clips, rubber gasket/ 'U'/F' channel for border etc. all complete as directed. (All aluminium sections should be 15 micron anodized/ powder coated).	10.00	Sqm
50	Providing uncoursed rubble masonry of trap stones in cement mortar 1:6 in foundation and plinth of inner wall including bailing out water manually, striking joints on unexposed faces and pointing with cement mortar 1:3 on outside exposed faces and watering etc all complete as directed by Engineer In-charge.	2.00	Cum

Sr. No.	Description of work	Quantity	Unit
51	Providing and fixing in position gypsum board false ceiling with 12mm thick gypsum boards, screwed/fixing to the under structure of suspended G.I grid constructed and suspended from the main ceiling consisting of ceiling section of size 25 x 50 mm maximum c/c distance of 600 x 600mm perimeter channel and intermediate channel at maximum c/c to distance of 1200mm galvanised grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanised iron grid with necessary screws. The board should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling section and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200mm item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs and including labour, material, lift and scaffolding at any height etc. all complete as directed by Engineer In-charge.	25.00	Sqm.
52	Providing and fixing modular false ceiling of 600mm x 600mm c/c and placing 3mm thick square aluminium composite sheet (also bond sheet) to be fixed on frame work of aluminium section for suspended false ceiling consisting of aluminium T 1" x 1 1/2" (25 x 40mm) weighing 0.259 Kg/m suspended on GI wire at 1200mm c/c, fixed on wall beams, slab including rounding the edge with aluminium T of 1"x 1 1/2" (25mm x 40mm) weighing 0.259kg/m (all aluminium section shall be anodized 15micron or powder coated), making necessary cutout for light and fixtures including all labour, material, lifts and scaffolding all complete as directed by Engineer Incharge etc.	25.00	Sqm
53	Providing and fixing Chequerred precast Cement concrete tiles of size 300mm x 300mm & 22mm thick of approved colour and pattern over the slab of mess including filling the joints with light shed pigment with white cement to match the shade of tiles including rubbing, curing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 (1 Cement : 4 coarse sand) .	130.00	Sqm

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) 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.

M. Hajrat
14/11/2022

Superintending Engineer (I/C)

[Signature]
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