



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 GST	EMD (Rs.)	Time Limit	RFX No.
1.	Term contract for plumbing, Carpentry & Miscellaneous maintenance work in Hostel No. 15,16 and Hostel area for One year period. EO/A/HOSTEL/WKS-24/23-24	Rs.68,28,290/-	Rs.1,36,000/-	01 Year	610000/434

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](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 14.06.2023. to 21.06.2023 upto 11.15 a.m. Date of opening of Technical Bid and Financial Bid will be 21.06.2023 at 11.30 a.m.

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 1<sup>st</sup> April and ended with 31<sup>st</sup> 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 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) / 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 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.1,36,000/-(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.

*[Handwritten Signature]*  
12/06/2023  
Superintending Engineer

**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 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 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 an estimate are based on CPWD SOR 2016 and 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.

*[Handwritten Signature]*  
12/06/2023  
Superintending Engineer

*[Handwritten Signature]*

**TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID**

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

File No. : EO/A/HOSTEL/WKS-24/23-24 ✓

Name of Work : Term contract for Plumbing, Carpentry & Miscellaneous maintenance work in Hostel No.15, 16 and Hostel area for One year period.

Name of the Contractor -----

Sr. No.	Name of Client	Name of Works	2020-21 (In Lakhs)	2021-2022 (In Lakhs)	2022-2023 (In Lakhs)	2023-2024 (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.

*R. Srinivasan*  
12/06/2023.

Superintending Engineer (I/C)

*[Handwritten initials and signatures]*

Signature of Contractor  
Name & Address in full

WORK UNDERTAKING

EO/A/HOSTEL/WKS-24/23-24

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.15, 16 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 One 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. : .....

.....

The 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 - 400 076

EO/A/HOSTEL/WKS-24/23-24

ESTATE OFFICE

Name of Work :- Term contract for Plumbing, Carpentry & Miscellaneous maintenance work in Hostel No.15, 16 and Hostel area for One year period.

Schedule of work

Sr. No.	Description of work	Qty.	Unit
1(a)	<p>Attending all the plumbing, carpentry and associated problems, complaints etc. in Hostel No.15, 16 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 10<sup>th</sup> standard pass having knowledge of civil works with minimum 3 years. Also engaging one plumber for night shift duty. 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 &amp; 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 1<sup>st</sup> chamber outside the building, fixing of loose fittings and fixtures with new screws, nails and brackets, providing and fixing of new washers for defective bib taps, stopcocks, 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 &amp; damaged items and fittings, fixtures, doors, windows, frame &amp; 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 &amp; Carpenter and 01 Supervisor in regular day shift (9.00a.m. to 6.00p.m.) and 01 Plumber in night shift (6.00p.m. to 2.00a.m.) is to be deployed in all the 6 days of a week as and when required as per direction of Engineer In-charge.</p> <p>(ii) If any one of the six 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 six 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 six 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 six 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 &amp; 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 &amp; 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	Per Job

Sr. No.	Description of work	Qty.	Unit
1(b)	Arranging operation and control of water pumps and water supply system of Hostel No.15 & 16 including switching on and off of pumping units, as and when required, controlling water levels of under ground as well as over head water tanks to avoid overflows, providing uninterrupted water supply to all wings of Hostel No.15 & 16 etc. by arranging two operators in morning shift (i.e. from 6.00 a.m. to 2.00 p.m. & 9.00 am to 6.00 pm), one operator in afternoon shift (i.e. from 2.00 p.m. to 10.00 p.m.) and one operator in night shift (i.e. from 10.00 p.m. to 6.00 a.m.). Shift will be consist of 8 hours as directed by Engineer In-charge for controls and operations at ground level in and around pump house by one person and checking the overhead tank levels and controlling of all wings of Hostel No.15 & 16. The engagement and activities of 1 operator for period of 8 hours will be considered as one mandays for measurement of the item of work.	1460	Man days
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	No.
	b) Ball Cock (50 mm dia and PVC float)	6	No.
	c) Foot operated tap (wt not less than 350grams)	10	No.
	d) CP Bib Tap 15mm, Jaguar make	10	No.
	e) CP Stop cock 15mm, Seiko/Techno make	10	No.
	f) C.P. Pillar tap of long neck 15mm, Jaguar make	12	No.
	g) C.P. Bib Tap 15mm, Seiko/Techno make	12	No.
	h) C.P. Bottle trap (Jaquar)	15	No.
	i) PVC waste pipe	60	No.
	j) C.I. Cover with frame (Gully trap)	12	No.
	k) C.I. Nahani Trap 100 mm dia	12	No.
	l) C.I. Pipe 100 mm dia	20.00	Rmt
	m) C.I. Pipe 150 mm dia	5.00	Rmt
	n) C.I. Pipe 75/80 mm dia	20.00	Rmt
	o) C.I. Trap grating 15 x 10 cm	12	No.
	p) Cement	10.00	Bag
	q) White Cement	250.00	Kg
	r) Chromium plated aluminium towel rod (16mm dia. 750 mm long)	48.00	No.
	s) G. I. Clamp 20mm	30.00	No.
	t) Flush Tank 10 Ltr with Accessories (Parryware / Flush line or approved make)	50.00	No.
	u) G.I. Pipe 15 mm dia heavy type	50.00	Rmt
	v) G.I. Pipe 20 mm dia heavy type	10.00	Rmt
	w) G.I. Pipe 25 mm dia heavy type	50.00	Rmt
	x) G.I. Pipe 32 mm dia heavy type	10.00	Rmt
	y) G.I. Pipe 40 mm dia heavy type	50.00	Rmt

Sr. No.	Description of work	Qty.	Unit
	z) G.I. Pipe 50 mm dia heavy type	50.00	Rmt
	aa) G.I. Pipe 65 mm dia heavy type	10.00	Rmt
	ab) G.I. Union 15 mm	10	Nos.
	ac) G.I. Union 20 mm	10	Nos.
	ad) G.I. Union 25 mm	10	Nos.
	ae) G.I. Union 32 mm	10	Nos.
	af) G.I. Union 40 mm	10	Nos.
	ag) G.I. Union 50 mm	20	Nos.
	ah) G.I. Union 65 mm	10	Nos.
	ai) G.I. Coupling 15 mm	10	Nos.
	aj) G.I. Coupling 25 mm	10	Nos.
	ak) G.I. Coupling 50 mm	10	Nos.
	al) G.I. Elbow 15 mm	10	Nos.
	am) G.I. Elbow 20 mm	10	Nos.
	an) G.I. Elbow 25 mm	10	Nos.
	ao) G.I. Elbow 50 mm	20	Nos.
	ap) G.I. Elbow 65 mm	10	Nos.
	aq) G.I. Nipple 50 mm	20	Nos.
	ar) G.I. Nipple 65 mm	10	Nos.
	as) G.I. Tees 15 mm	10	Nos.
	at) G.I. Tees 20 mm	10	Nos.
	au) G.I. Tees 25 mm	10	Nos.
	av) G.I. Tees 50 mm	20	Nos.
	aw) G.I. Tees 65 mm	10	Nos.
	ax) C.P.V.C 15mm pipe	30.00	Rmt
	ay) C.P.V.C 20mm pipe	30.00	Rmt
	az) C.P.V.C 25mm pipe	30.00	Rmt
	ba) Gun Metal Stop cock 15 mm	1	No.
	bb) Gun Metal Stop Cock 20 mm	1	No.
	bc) Mirror 75cm X 60cm	60	No.
	bd) Mirror 45cm X 60cm	60	No.
	be) PVC "YY" Junction 110 mm	2	No.
	bf) PVC "YY" Junction 75 mm	2	No.
	bg) PVC Bottle Trap 32 mm (Polymer)	24	No.

Sr. No.	Description of work	Qty.	Unit
	bh) PVC 75 mm outer dia pipe	30.00	Rmt
	bi) PVC 50 mm outer dia pipe	30.00	Rmt
	bj) PVC slotted Cowl 75mm	1	No.
	bk) PVC Socket and Coupling 110mm	1	No.
	bl) PVC Socket and Coupling 75mm	1	No.
	bm) Salt glazed S. W. gully trap	10	No.
	bn) Socket for 12/15 mm tap	1	No.
	bo) Socket for 20/25 mm tap	1	No.
	bp) Socket for 32 mm tap	1	No.
	bq) Socket for 40 mm tap	1	No.
	br) Socket for 50 mm tap	1	No.
	bs) Spun Yarn	10.00	Kg.
	bt) Stainless Steel Sink 60 x 45 cm & 20 cm depth	1	No.
	bu) Stone ware pipe 150 mm dia	1.00	Rmt
	bv) Stone ware pipe 225 mm dia	1.00	Rmt
	bw) Wash Basin Colour Glazed 55 x 40 cm	12	No.
	bx) Wash Basin White Glazed 55 x 40 cm	12	No.
	by) WC Pan Colour glazed 23" (Orisa)	6	No.
	bz) WC Pan white glazed 23" (Orisa)	6	No.
	ca) WC Pan White Glazed 580 mm European type	12	No.
	cb) Wheel Stop Tap Gun Metal 25mm	4	No.
	cc) Wheel Stop Tap Gun Metal 40mm	4	No.
	cd) Wheel Stop Tap Gun Metal 50mm	4	No.
	ce) Wheel Stop Tap Gun Metal 65mm	4	No.
	cf) White Glaze Pedestal for wash basin	4	No.
	cg) White glazed half stall urinal (Cera / American standard/Parryware/)	6	No.
	ch) C.P Spreader (For gents Urinal)	50	No.
	ci) Copper Connector - 300mm	50	No.
	cj) Double Nipple for Urinal	50	No.
	ck) Teflon tape	50	No.
	cl) Cap washer for connector	25	No
	cm) Two Way Bib Tap (Seiko)	10	No.
	cn) Jet Spray / Hand Spray	100	No.
	co) Jet Spray Pipe connection- 1 meter long	100	No.



Sr. No.	Description of work	Qty.	Unit
	cp) C. P. Jet Spray / Hand Spray Stand	100	No.
	cq) Waste coupling - 1½" dia full threaded	50	No.
	cr) PVC Connection (1/2)"- for wash basin-200 mm long	100	No.
	cs) PVC Connection (1/2)"- for flush tank-600 mm long	100	No.
	ct) Stainless Steel Jali 4" for nahani trap with / without hole	100	No.
	cu) Sink cock for mess (Seiko make)	10	No.
	cv) Shower Arm	20	No.
	cw) Shower tube	20	No.
	cx) Flush Tank washer	100	No.
	cy) Flush button set for flush tank	100	No.
	cz) Push cock for urinals (Jaguar make)	50	No.
	da) Angle cock (Seiko/Techno)	50	No.
	db) Aluminium Window handle	10	No.
	dc) Aluminum tower bolt 75mm	20	No.
	dd) Butt Hinges brass oxidized 100mm	100	No
	de) Butt Hinges brass oxidized 125mm	100	No
	df) Hyper hydraulic door closer (ISI Mark)	24	No.
	dg) Fevicol	5.00	Kg.
	dh) Glass 3mm thick (plain)	1.00	Sqm
	di) Glass 4mm thick (Plain)	10.00	Sqm
	dj) Glass 5mm thick (Plain)	10.00	Sqm
	dk) Glass bajri 6mm	10.00	Sqm
	dl) Glass 5.5mm	10.00	Sqm
	dm) 3mm acrylic sheet	1.00	Sqm
	dn) Glass plain 6mm	10.00	Sqm
	do) 5mm acrylic opaque sheet	5.00	Sqm
	dp) 6mm acrylic opaque sheet	5.00	Sqm
	dq) 5mm acrylic plain sheet	10.00	Sqm
	dr) Godrej Night latch	2	No.
	ds) Brass handle 75mm	10	No.
	dt) Brass handle 125mm	24	No.
	du) Brass hinges 75mm	60	No.
	dv) Brass hinges 125mm	60	No.
	dw) Marine ply wood 4mm thick	5.00	Sqm

Sr. No.	Description of work	Qty.	Unit
	dx) Marine ply wood 6mm thick	5.00	Sqm
	dy) Marine ply wood 12mm thick	5.00	Sqm
	dz) Marine ply wood 8mm thick	5.00	Sqm
	ea) Marine ply wood 18mm thick	5.00	Sqm
	eb) PVC Gasket Lining	20.00	Rmt
	ec) Rubber Lining	20.00	Rmt
	ed) Tower bolt 100mm brass oxidized	100	Nos.
	ee) Tower bolt 150mm brass oxidized	50	Nos.
	ef) Tower bolt 200mm brass oxidized	100	Nos.
	eg) S.S.304 fly proof mesh	100	Sqm
	eh) S.S. Aldrop 250mm	50	Nos.
	ei) Capsule door closer	50	Nos.
	ej) 'D' Type handle 125mm	50	Nos.
	ek) 'D' Type handle 150mm	50	Nos.
	el) 160mm PVC pipe	100	Rmt
	em) 110mm PVC pipe	50	Rmt
	en) Bib cock with head adapter for washing machine	20	Nos.
	eo) Concealed Lock	10.00	Nos.
	ep) PVC bearing	20.00	Nos.
	eq) Rubber gasket	50.00	Rmt
	er) PVC lining	50.00	Rmt
	es) Aluminium decorative grill	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.	100.00	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
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.	100.00	Sqm

Sr. No.	Description of work	Qty.	Unit
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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

Sr. No.	Description of work	Qty.	Unit
14	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
15	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
16	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.	100.00	Sqm
17	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
18	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
19	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
20	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

Sr. No.	Description of work	Qty.	Unit
21	<p>Applying external waterproof plaster using factory made ready mix polymer cement mortar plaster.</p> <p>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.</p> <p>ii) The base coat of minimum 12mm thick using above ready mixed polymer modified mortar plaster to proper plumb level &amp; line including making the plaster surface rough (all as per the manufacturer's specifications) to receive the top finish coat.</p> <p>iii) Applying top/finish coat plaster of minimum 8mm thickness with similar ready mix polymer cement mortar plaster finishing in perfect plumb, line &amp; 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.</p> <p>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.</p>	30.00	Sqm
22	<p>Providing &amp; 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.</p>	1000.00	Kg
23	<p>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.</p>	50.00	cum
24	<p>Providing dry trap / rubble stone soling 15cm to 20cm thick including hand packing, compacting etc all complete as directed by Estate Engineers.</p>	2.00	Cum
25	<p>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.</p>	2.00	Cum
26	<p>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.</p>	10.00	No.
27	<p>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.</p>	100.00	Kg.
28	<p>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.</p>	10.00	Sqm

Sr. No.	Description of work	Qty.	Unit
29	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
30	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
31	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
32	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
33	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.	500.00	Sqm
34	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.	2,000.00	Sqm
35	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.	2,000.00	Sqm
36	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

Sr. No.	Description of work	Qty.	Unit
37	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
38	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.
39	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.
40	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 <sup>st</sup> 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
41	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
42	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
43	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

Sr. No.	Description of work	Qty.	Unit
44	Providing and fixing pre-coated 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 steel grade, 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
45	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
46	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

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.

*R. S. Jadhav*  
12/06/2023  
Superintending Engineer (I/C)

*[Handwritten signatures]*