



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.	Term contract for plumbing, carpentry & miscellaneous maintenance work in Hostel No. 12,13 & 14 and Hostel area for one year period. EO/A/HOSTEL/WKS-151/24-25	Rs.98,35,963/-	Rs 1,96,000/-	01 year	6100001993

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 10.01.2025 to 22.01.2025 till 11:15 a.m.Date of opening of **Technical Bid will be 22.01.2025 at 11.30 a.m. and and Financial Bid 29.01.2025 (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.1,96,000/-(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 and Ongoing Market rate & 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)

OK

R. Chhapra
31/12/2024
JE. S. D. B. B. B.

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/HOSTEL/WKS-151/24-25

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	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. S. Gupta
31/12/2024

Superintending Engineer (I/C)

PrE
30/12/2024

PrE

Signature of Contractor
Name & Address in full

WORKS UNDERTAKING

EO/A/HOSTEL/WKS-151/24-25

To,
Superintending Engineer,
Indian Institute of Technology Bombay,
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.

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 - 400 076

EO/A/HOSTEL/WKS -151/24-25

ESTATE OFFICE

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	Qty.	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, carpenter and mason each with not less than 5 years experience in plumbing, carpentry and mason work, helper for all plumber, carpenter and mason for day regular shift duty with minimum knowledge in plumbing, carpentry and mason work and a supervisor of 10th 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 & 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.</p> <p>The scope of work includes all the plumbing, carpentry and mason 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, stopcocks, pillar taps, ball floats, arresting leakage 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 pattem mentioned in this Item - 01 Plumber, 01 Carpenter, 01 Mason and 01 Helper for each Plumber, Carpenter & Mason 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 eight 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 eight 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 eight 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 eight 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	Per Job
2	<p>Arranging lifting and dropping of submersible pump from underground tank placing in position at pumproom of Hostel No.12,13 &14 and installation of pumps with necessary plumbing connections by arranging 8 labours, (4 positioned at top & 4 positioned at bottom) and cordinating the lifting & dropping process between labours at top & bottom . Lifting & dropping shall be manually by means of wire / rope/lifting-dropping equipments with necessary hooks without causing any damage to themselves, pumps, workmen, other structures etc and reporting the completion to the Engineer In-charge or his representative all complete as directed.</p>	10	Per Job

Sr. No.	Description of work	Qty.	Unit
3	<p>Attending all the plumbing, carpentry and associated problems, complaints etc. during the peak time especially before and after the admission process in Hostel No.12,13 & 14 as directed by Engineer In-charge. Before admission, the services should commence one month prior to the admission date and be completed atleast on week before admission begin. After admission, the services should commence immediately after the admission process and be completed within one month. The work shall be carried out 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. 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. Inspect all plumbing fixtures, including all 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, 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, 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 & 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 in regular day shift (9.00a.m. to 6.00p.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 four is absent in a day and no substitute is provided a penalty equal to 50% rate of this Item per day will be deducted from that day's payment and if any two out of the four 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 four 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>	52	Per Job
4	<p>Supplying of the following materials as and when required and for installing / fixing through the team available as per Item No.1.</p> <p>Note :- Brands of material as per attached list and as directed by Estate Office.</p> <p>a) Back Seat for European W.C. 19" x 14" x 16" (height)</p>	50	Nos.
5	b) Ball Cock (50 mm dia and PVC float)	5	Nos.
6	c) Ball Cock (40 mm dia and PVC float)	5	Nos.
7	d) Ball Cock (25 mm dia and PVC float)	5	Nos.
8	e) Ball valve (50 mm dia)	2	Nos.
9	f) Ball valve (40 mm dia)	2	Nos.
10	g) Ball valve (25 mm dia)	2	Nos.
11	h) Ball valve (15 mm dia)	2	Nos.
12	i) CP Bib Tap 15mm, Jaguar make	50	Nos.
13	j) CP Stop cock 15mm, Seiko/Techno make	24	Nos.
14	k) C.P. Pillar tap of long neck 15mm, Jaguar make	10	Nos.
15	l) C.P. Bib Tap 15mm, Seiko/Techno make	50	Nos.
16	m) C.P. Bottle trap (Jaquar)	5	Nos.
17	n) PVC waste pipe	200	Nos.
18	o) C.I. Cover with frame (Gully trap)	10	Nos.
19	p) C.I. Pipe 150 mm dia	5.00	Rmt
20	q) C.I. Pipe 100 mm dia	5.00	Rmt
21	r) C.I. Pipe 75/80 mm dia	5.00	Rmt
22	s) C.I. Nahani Trap 100 mm dia	12	Nos.
23	t) PVC Nahani Trap 100 mm dia	12	Nos.
24	u) PVC Pipe 150 mm dia	100.00	Rmt
25	v) PVC Pipe 100 mm dia	100.00	Rmt
26	w) PVC Pipe 75 mm dia	100.00	Rmt
27	x) PVC Pipe 50 mm dia	100.00	Rmt
28	y) PVC Pipe 40 mm dia	50.00	Rmt

Sr. No.	Description of work	Qty.	Unit
29	z) Cement	50.00	Bag
30	aa) White Cement	250.00	Kg
31	ab) Chromium plated aluminium towel rod (16mm dia. 750 mm long)	50	Nos.
32	ac) Flush Tank 10 Ltr with Accessories (Parryware / Flush line or approved make)	100	Nos.
33	ad) G.I. Pipe 15 mm dia heavy type	100.00	Rmt
34	ae) G.I. Pipe 20 mm dia heavy type	50.00	Rmt
35	af) G.I. Pipe 25 mm dia heavy type	100.00	Rmt
36	ag) G.I. Pipe 32 mm dia heavy type	50.00	Rmt
37	ah) G.I. Pipe 40 mm dia heavy type	25.00	Rmt
38	ai) G.I. Pipe 50 mm dia heavy type	25.00	Rmt
39	aj) G.I. Pipe 65 mm dia heavy type	10.00	Rmt
40	ak) G.I. Union 15 mm	10	Nos.
41	al) G.I. Union 20 mm	10	Nos.
42	am) G.I. Union 25 mm	10	Nos.
43	an) G.I. Union 32 mm	10	Nos.
44	ao) G.I. Union 40 mm	10	Nos.
45	ap) G.I. Union 50 mm	20	Nos.
46	aq) G.I. Union 65 mm	10	Nos.
47	ar) G.I. Coupling 15 mm	10	Nos.
48	as) G.I. Coupling 25 mm	10	Nos.
49	at) G.I. Coupling 50 mm	10	Nos.
50	au) G.I. Elbow 15 mm	10	Nos.
51	av) G.I. Elbow 20 mm	10	Nos.
52	aw) G.I. Elbow 25 mm	10	Nos.
53	ax) G.I. Elbow 50 mm	20	Nos.
54	ay) G.I. Elbow 65 mm	10	Nos.
55	az) G.I. Nipple 50 mm	20	Nos.
56	ba) G.I. Nipple 65 mm	10	Nos.
57	bb) G.I. Tees 15 mm	10	Nos.
58	bc) G.I. Tees 20 mm	10	Nos.
59	bd) G.I. Tees 25 mm	10	Nos.
60	be) G.I. Tees 50 mm	20	Nos.
61	bf) G.I. Tees 65 mm	10	Nos.
62	bg) Gun Metal Stop cock 15 mm	1	Nos.
63	bh) Gun Metal Stop Cock 20 mm	1	Nos.
64	bi) Mirror	50	Sqm
65	bj) PVC "YY" Junction 110 mm	2	Nos.
66	bk) PVC "YY" Junction 75 mm	2	Nos.
67	bl) PVC slotted Cowl 75mm	1	Nos.
68	bm) PVC Socket and Coupling 110mm	1	Nos.
69	bn) PVC Socket and Coupling 75mm	1	Nos.
70	bo) Salt glazed S. W. gully trap	2	Nos.
71	bp) Socket for 12/15 mm tap	1	Nos.
72	bq) Socket for 20/25 mm tap	1	Nos.
73	br) Socket for 32 mm tap	1	Nos.
74	bs) Socket for 40 mm tap	1	Nos.
75	bt) Socket for 50 mm tap	1	Nos.
76	bu) Spun Yarn	10.00	Kg.
77	bv) Stainless Steel Sink 60 x 45 cm & 20 cm depth	1	No.
78	bw) Stone ware pipe 150 mm dia	20.00	Rmt
79	bx) Stone ware pipe 225 mm dia	20.00	Rmt
80	by) Wash Basin White Glazed 55 x 40 cm	12	Nos.
81	bz) WC Pan white glazed 23" (Orisa) with trap	6	Nos.
82	ca) WC Pan White Glazed 580 mm European type with trap	10	Nos.
83	cb) WC Pan wall hung	5	Nos.
84	cc) Wheel Stop Tap Gun Metal 25mm	4	Nos.
85	cd) Wheel Stop Tap Gun Metal 40mm	4	Nos.
86	ce) Wheel Stop Tap Gun Metal 50mm	4	Nos.
87	cf) Wheel Stop Tap Gun Metal 65mm	4	Nos.
88	cg) Non Return Valve 32mm	2	Nos.
89	ch) Non Return Valve 40mm	2	Nos.
90	ci) Non Return Valve 50mm	2	Nos.
91	cj) White glazed half stall urinal (Cera / American standard/Parryware/)	5	Nos.
92	ck) White glazed full stall urinal (Cera / American standard/Parryware/)	5	Nos.
93	cl) C.P Spreader (For gents Urinal)	50	Nos.
94	cm) Copper Connector – 300mm long	50	Nos.

Sr. No.	Description of work	Qty.	Unit
95	cn) Copper Connector – 600mm long	5	Nos.
96	co) Double Nipple for Urinal	50	Nos.
97	cp) Teflon tape	100	Nos.
98	cq) Cap washer for connector	25	Nos.
99	cr) Two Way Bib Tap (Seiko)	20	Nos.
100	cs) Jet Spray / Hand Spray	200	Nos.
101	ct) Jet Spray Pipe connection- 1 meter long	200	Nos.
102	cu) C. P. Jet Spray / Hand Spray Stand	200	Nos.
103	cv) Waste coupling – 1½" dia full threaded	50	Nos.
104	cw) PVC Connection (1/2)"- for wash basin-200 mm long	200	Nos.
105	cx) PVC Connection (1/2)"- for flush tank-600 mm long	200	Nos.
106	cy) Stainless Steel Jali 4" for nahani trap with / without hole	200	Nos.
107	cz) Sink cock for mess (Seiko make)	5	Nos.
108	da) Shower Arm	50	Nos.
109	db) Shower rose	50	Nos.
110	dc) Flush Tank washer	200	Nos.
111	dd) Flush button set for flush tank	50	Nos.
112	de) Push cock for urinals(Jaguar make)	50	Nos.
113	df) Angle cock (Seiko/Techno)	50	Nos.
114	dg) Aluminium Window Z-handle	10	Nos.
115	dh) Aluminum tower bolt 75mm	20	Nos.
116	di) Butt Hinges brass oxidized 100mm	100	Nos.
117	dj) Butt Hinges brass oxidized 125mm	100	Nos.
118	dk) Hyper hydraulic door closer (ISI Mark)	50	Nos.
119	dl) Fevicol	5.00	Kg.
120	dm) Glass 3mm thick (plain)	5.00	Sqm
121	dn) Glass 4mm thick (Plain)	10.00	Sqm
122	do) Glass 5mm thick (Plain)	10.00	Sqm
123	dp) Glass 5.5mm thick (Plain)	30.00	Sqm
124	dq) Glass 5.5mm thick (Bajri)	50.00	Sqm
125	dr) 3mm acrylic sheet	5.00	Sqm
126	ds) 5mm acrylic opaque sheet	5.00	Sqm
127	dt) 6mm acrylic opaque sheet	5.00	Sqm
128	du) 5mm acrylic plain sheet	10.00	Sqm
129	dv) Godrej Night latch	2	Nos.
130	dw) Brass handle 75mm	10	Nos.
131	dx) Brass handle 125mm	24	Nos.
132	dy) Brass hinges 75mm	60	Nos.
133	dz) Brass hinges 125mm	60	Nos.
134	ea) PVC Gasket Lining	20.00	Rmt
135	eb) Rubber Lining	20.00	Rmt
136	ec) Tower bolt 100mm brass oxidized	100	Nos.
137	ed) Tower bolt 150mm brass oxidized	50	Nos.
138	ee) Tower bolt 200mm brass oxidized	100	Nos.
139	ef) Aluminum fly proof mesh	200.00	Sqm
140	eg) S.S. Aldrop 250mm	50	Nos.
141	eh) Capsule door closer	50	Nos.
142	ei) D' Type handle 125mm	50	Nos.
143	ej) D' Type handle 150mm	50	Nos.
144	ek) Bib cock with head adapter for washing machine	20	Nos.
145	el) Concealed Lock	10	Nos.
146	em) PVC bearing	50	Nos.
147	en) Rubber gasket	50.00	Rmt
148	eo) PVC lining	50.00	Rmt
149	ep) Aluminium decorative grill	20.00	Sqm
150	eq) ACP Sheet 4mm thick	20.00	Sqm
151	er) Kaichi Hinges (Albihari make) 10"	25.00	Nos.
152	es) Kaichi Hinges (Albihari make) 14"	25.00	Nos.
153	et) 1 mm Sunmica sheet (white)	50.00	Sqm
154	eu) 1 mm Sunmica sheet (designer)	50.00	Sqm
155	ev) Teak wood Beading Patti (1 inch)	100.00	Rmt
156	ew) Teak wood (2100 x 100 x 75 mm)	24	Nos
157	ex) Star lock	50	Nos
158	ey) Haps & staple	50	Nos
159	ez) Holdtite	1.00	kg
160	fa) S.S. Sliding latch /tadi 250mm long	5	Nos

Sr. No.	Description of work	Qty.	Unit
161	fb) S.S. door stopper with rubber peg	50	Nos
162	fc) C.P.V.C 15mm pipe	30.00	Rmt
163	fd) C.P.V.C 20mm pipe	30.00	Rmt
164	fe) C.P.V.C 25mm pipe	30.00	Rmt
165	ff) Marine ply wood 4mm thick	5.00	Sqm
166	fg) Marine ply wood 6mm thick	5.00	Sqm
167	fh) Marine ply wood 8mm thick	5.00	Sqm
168	fi) Marine ply wood 12mm thick	5.00	Sqm
169	fj) Marine ply wood 18mm thick	5.00	Sqm
170	fk) Anchor fastener 10mm x 100mm	50	Nos.
171	fl) Hook for fan	20	Nos.
172	fm) M-seal	5.00	Kg
173	fn) Parryware concealed body shower mixer	5	Nos.
174	fo) 12 mm toughened glass	5.00	Sqm
175	fp) Floor spring for glass door upto 150kg	2	Nos.
176	fq) Lock for glass door	2	Nos.
177	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
178	Providing dry trap / rubble stone soling 15cm to 20cm thick including hand packing, compacting etc all complete as directed by Engineer In-charge.	2.00	Cum
179	Removing the old & damaged cement concrete or any type of tiles / china mosaic tiles from floor / terrace / wall carefully including levelling the surface, cleaning the site & stacking the debris at suitable location for taking out side IIT campus including scaffolding etc all complete as directed by Engineer Incharge.	200.00	Sqm
180	Removing the existing loose and damaged brickbat coba waterproofing treatment from toilet block, terrace & balcony up to any thickness with out making any damages to the roof slab with the use of sharp chisels, levelling and cleaning the roof surface for providing new specialised waterproofing treatment, lowering down debris without causing dust nuisance and stacking the debris upto a distance at suitable location for taking out side IIT campus etc. all complete as directed by Engineer In-charge.	50.00	Cum
181	Removing the existing damaged cement plaster of any thickness without causing dust nuisance and stacking the debris at suitable location for taking out side IIT campus and cleaning the site including scaffolding etc. all complete as directed by Engineer In-charge.	200.00	Sqm
182	Pulling down burnt brick masonry (in cement mortar) with plaster including sorting out serviceable bricks and stacking the same at suitable location as directed and disposing/stacking the debris at suitable location for taking away out of IIT campus including scaffolding etc. all complete as directed by Engineer Incharge.	5.00	Cum

Sr. No.	Description of work	Qty.	Unit
183	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 by Engineer Incharge.	2.00	Cum
184	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
185	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 at suitable location for taking out side 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
186	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 such as Alkaline base as per manufacturers specification, cleaning including scaffolding etc. all complete as directed by Engineer In-charge. · Actual consumption of Alkaline base converter shall be measured for payment on weight basis. Challans of authorised dealer will be verified.	10.00	Kg.
187	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 of authorised dealer will be verified.	100.00	Kg.
188	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 of authorised dealer will be verified.	500.00	Kg.
189	Drilling straight and inclined holes upto 300mm depth and upto 20mm dia in concrete / masonry using electrically operated drilling machine and fixing PVC nipple for grouting, conducting water test including scaffolding etc. all complete as directed by Engineer In-charge.	50.00	Nos.

Sr. No.	Description of work	Qty.	Unit
190	Grouting existing RCC structural members & tile work as per following operations, sealing leak paths with cement mortar & polymer, fixing of nipple, plugging the hole with neat cement paste by ram packing, cleaning including scaffolding etc. all complete as directed by Engineer In-charge. 1) Add Sunflex powder 1.00 kg in one bag of cement of 50 kg with adequate water. 2) Using mechanical means of pressure grouting with the above mix. The pressure shall be 5-10 psi. 3) The grouting to be done into the cracks of ceiling, walls, columns, & beam junctions wherever required. 4) After through grouting sealing the holes with cement slurry etc. all complete as directed.	100.00	kg
191	Providing and laying super fluid micro concrete of approved manufacturer at any floor after reinforcement treatment coat including mixing with 5mm to 10mm size quartz aggregate in the ratio of 1 part ACC shrikomp to 0.75 part of quartz aggregate by weight providing marine plywood formwork in line and level, cleaning, curing, scaffolding etc. complete. the compressive strength of super fluid micro concrete should not be less than 20N / mm ² etc. All complete as directed by Engineer In-charge. (Make:-Dr. Fixit, Sunanda, MC Bouchmey, Chembond, M/s Wall Plast)	500.00	kg
192	Cutting, demarcating grooves at any height with electrically operated cutter machine between sound and unsound plaster, cracks on external wall, separation cracks including scaffolding, stacking the debris at suitable location etc. all complete as directed by Engineer In-charge.	50.00	Rmt
193	Providing and filling separation crack of 50mm width and 25mm deep with polymer modified cementitious mortar. Demarcating groove, removing plaster / concrete carefully, washing with potable water. Filling polymer modified cementitious mortar in layers of 20mm thick (applying bond coat at every layer) upto profile of concrete in vicinity (composition of mortar: cement 1Kg.: polymer (SBR) of approved manufacturer 15% by wt. of cement : 3Kg silica sand (grading IS 383, zone II, silt content = 0%) over a polymer + cement bond coat including applying making tape on both side of groove, cleaning, finishing to match the plaster in vicinity, scaffolding etc. all complete as directed by Engineer In-charge.	50.00	Rmt
194	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
195	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.	5.00	Cum
196	Providing & fixing approved quality 12 Gauge thick weld mesh with nails at junction of R.C.C. and masonry walls before plastering etc. all complete as directed by Engineer In-charge.	100.00	Sqm

Sr. No.	Description of work	Qty.	Unit
197	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
198	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
199	Providing & 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
200	Providing & laying cement based water proofing treatment to terrace / toilet block / balcony 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 5 years' guarantee / warranty on requisite (Rs-500/-) non-judicial stamp paper etc. all complete as directed by Engineer In-charge.	25.00	Cum
201	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
202	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
203	Providing and laying water proofing cement concrete flooring to terrace to average 50mm thick with 1:2:3 cement concrete laid to proper level and slope using river sand including compaction, filling joints, adding recommended waterproofing admixtures @ 2% by weight of cement, finishing the top surfaces with broken china mosaic (broken piece of glazed tiled) of approved colour & pattern including neat cement float, testing the roof by ponding with water for 14 days, providing waterproofing guarantee / warranty for 5 years on requisite (Rs-500/-) non-judicial stamp paper etc. all complete as directed by Engineer Incharge.	50.00	Sqm

Sr. No.	Description of work	Qty.	Unit
204	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
205	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
206	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
207	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
208	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
209	Providing and laying colour granite slabs of not less than 16mm 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 by Engineer Incharge.	10.00	Sqm
210	Providing and laying interlocking cement concrete paver blocks in specified pattern 80mm thick with compressive strength not less than 40N/sqmm and as per IRC : SP :63-2004 manufactured by mechanised blocks with moulding machine, laying the blocks with proper line, level and required slope, including compacting and pressing with paver block pressing machine including providing and laying necessary sand bedding 20-40mm thick as required and joint filling using sand of gradation as per IRC : SP:63-2004 clause 6.5.1 and 6.5.2 respectively etc. all complete as directed by Engineer Incharge.	50.00	Sqm
211	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

Sr. No.	Description of work	Qty.	Unit
212	Providing and fixing Chequerred precast Cement concrete tiles of 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) etc. all complete as directed by Engineer Incharge..	100.00	Sqm
213	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
214	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.	500.00	Kg
215	Providing and fixing stainless steel (Grade 304) sections like hollow tubes, channels, angles, tees, plate, pipe, flats, standard connectors, flange cap, studs & other accessories etc. as per site requirement including fixing in position with connecting plates, braces, welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts, stainless steel dash fasteners, stainless steel bolts etc., of required size with suitable arrangement including scaffolding etc. all complete as directed by Engineer In-charge.(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	500.00	Kg
216	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 by Engineer Incharge.	10.00	No.
217	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 by Engineer Incharge.	100.00	Kg.
218	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.	100.00	Kg
219	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 x 18 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

Sr. No.	Description of work	Qty.	Unit
220	Providing and fixing in position shutter in sliding window using aluminium section for 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 304 grade stainless steel mosquito proof mesh in the shutter using approved quality minimum two nos.PVC rollers, necessary locks, handles and other required fittings, making shutter removable as and when require etc. complete as directed by Engineer in charge.(Note: All aluminium sections and fitting are 15 micron anodized/ powder coated).	30.00	Sqm
221	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 by Engineer Incharge. (All aluminium sections should be 15 micron anodized/ powder coated).	10.00	Sqm
222	Providing and applying Silicone sealants of 3M India Pvt. Ltd. brand around window frames / window frame joints and drilling holes for water outlet when the rain water on the glass fall into the channel and overflows wherever required including necessary etc. all complete as directed by Engineer Incharge.	100.00	Rmt
223	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 by Engineer Incharge.	50.00	Sqm
224	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 by Engineer Incharge.	200.00	Sqm
225	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 by Engineer Incharge.	200.00	Sqm
226	Providing and applying one coat of acrylic primer and two coats of exterior acrylic paint of approved colour & shade of IITB approved manufacturer and as per manufacturer's specification on old or new plastered surface over concrete / brickwork, stonework as per manufacturer's specification including cleaning the surface thoroughly with coir brush, watering the surface etc. complete including scaffolding, covering the floor, window glass with plastic sheet etc. all complete as directed by Engineer In-charge.(Make:- Berger (Weathercoat) , Asian (Ultima), Nerolac (Excel total))	200.00	Sqm
227	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 by Engineer Incharge.	2,000.00	Sqm

Sr. No.	Description of work	Qty.	Unit
228	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 by Engineer Incharge.	500.00	Sqm
229	Providing and applying roller finish Acrylic plastic emulsion paint of IITB approved manufacturer and of desired colour and shade to old new ceiling & wall surfaces in two coat with uniform finish with the use of stepladder, scrapping, preparing and levelling the surfaces with palti/putty, as per manufactures specification including covering the floor, window glass with plastic sheet and cleaning (excluding priming coat)etc. all complete as directed by Engineer Incharge. (Asian/Berger/Nerolac/Dulux)	1,500.00	Sqm
230	Providing & applying one coat of protectomastic self priming high build coating / Concessive ZRi of approved make, solvent borne zinc rich epoxy primer, having thickness as per manufacturer specification including applying one coat of intermediate epoxy high build finish and followed by two coats of an acrylic polyurethane enamel paint of Berger / Masterseal 260 of BASF / NEROLAC / ASIAN, applying on to prime surface to obtain thickness as per manufacturer's specification on exposed structural steel members including preparing & cleaning, removing all old surface coating and corrosion, cement plaster residue etc. by using steel wire brushes/chisels, emery/sand papers, compressors/air blowers etc including necessary taking all safety precautionary measures, covering the floor area by plastic, removing stains of paint from floor, scaffolding etc all complete as directed by Engineer In-charge. (MAKE BY : BERGER / BASF / NEROLAC / ASIAN PAINTS)	50.00	Sqm
231	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)	5,000.00	Liter
232	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.
233	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.
234	Providing & fixing co-extruded UV protected Microcell panel System 10mm thick (minimum) Polycarbonated UV installed sheets of Danpalon / SABIC / CE / TufLite / Rooflite / Neolite 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
235	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 by Engineer Incharge.	10.00	Sqm
236	Providing and fixing in position gypsum board false ceiling with 12mm thick gypsum boards, screwed/ fixed 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 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.
237	Providing and fixing modular false ceiling of 600mm x 600mm c/c and placing 3mm thick square aluminium composite sheet (alto 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 etc. all complete as directed by Engineer Incharge .	25.00	Sqm
238	Providing and fixing 35 mm thick Advance / Ravji / approved make Fiberglass Reinforced Plastic (F.R.P.) door shutter in flush or depress design as approved colour shade and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings like 100mm SS hinges 3 nos, 200mm SS tadi patti with packing 2no, 150mm SS handles 2 nos on each shutters and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically etc. all complete as directed by Engineer-In-Charge.	50.00	Sqm
239	Providing and fixing 30 mm thick Advance / Ravji / approved make Fiberglass Reinforced Plastic (F.R.P.) door shutter in flush or depress design as approved colour shade and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings like 100mm SS hinges 3 nos, 200mm SS tadi patti with packing 2no, 150mm SS handles 2 nos on each shutters and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically etc. all complete as directed by Engineer-In-Charge.	50.00	Sqm
240	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" 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 aldop, 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	Qty.	Unit
241	Providing and applying two coat of Prime seal of Dr.Fixit over new plaster masonry or RCC surface as per manufacturer specification including scaffolding, preparing the surface by thoroughly cleaning laitance, loose material, oil, grease and other foreign matter with wire brush and vacuum cleaning, including filling the cracks using appropriate exterior putty etc all complete as directed by Engineer In-charge & as per manufactures specifications.	50.00	Sqm
242	Providing and applying one or more coat of Dr. Fixit Raincoat Universal Base Coat over plaster, masonry or RCC surface of any height and without any dilution at a spreading rate of 3.5 -4.0 sq mtr per litre to achieve about 120-150 microns DFT as per manufacturer specification including preparing the surface by thoroughly cleaning laitance, loose material, oil, grease and other foreign matter with wire brush and vacuum cleaning, filling the cracks using appropriate exterior putty, covering the floor and wall, window glass with plastic sheet during work and cleaning after work including scaffolding and covering the whole treatment with 5 years guarantee / warranty on requisite (Rs-500/-) non-judicial stamp paper etc. all complete as directed by Engineer In-charge. (For vertical surface).	50.00	Sqm
243	Providing and applying one or more coat of Dr. Fixit Raincoat select Top coat to be apply with interval of 6-8 hours without any dilution at spreading rate of 6.5 sq mtr per litre to achieve about 60 microns DFT. Achieving total DFT of 180 to 210 microns same as existing colour/shade as per manufacturer's specification on plastered surface over concrete / brickwork of any height including scaffolding, cleaning the surface thoroughly, watering the surface etc. Complete including covering the floor and wall, window glass with plastic sheet and cleaning after work and covering the whole treatment with 5 years guarantee / warranty on requisite (Rs-500/-) non-judicial stamp paper etc. all complete as directed by Engineer In-charge. (For vertical surface).	50.00	Sqm
244	Providing and applying three coats of Dr. Fixit New coat as per manufacturer's specification on plastered surface over concrete/brickwork including cleaning the surface thoroughly, watering the surface etc. complete including scaffolding, covering the floor, window glass with plastic sheet and covering the whole treatment with 5 years guarantee / warranty on requisite (Rs-500/-) non-judicial stamp paper etc. all complete as directed by Engineer Incharge. (for horizontal surface / terrace)	50.00	Sqm
245	Providing and fixing double scaffolding system on the exterior/interior side at any height made up with 40mm dia M.S. tube 1.5m or 2m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration i.e., till completion of the work as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding (till the completion of the work).	200.00	Sqm
246	Providing and fixing Jute hessian fabric screen over the scaffolding of external/ internal surface as directed including removing the same after the work is over & taking away out of IIT campus etc. all complete as directed by Engineer Incharge.	50.00	Sqm
247	Providing and fixing new GI brackets with GI bolts wherever required for P.V.C. rain water pipes with necessary fittings including removing old damaged brackets (if required) & fixing the pipe on wall projecting 25mm to 40mm from face of wall, etc. all complete as directed by Engineer Incharge.	20.00	Nos

Sr. No.	Description of work	Qty.	Unit
248	Providing and fixing P.V.C. rain water pipes 150mm dia. conforming to I.S. including proper rain water receiving recess with P.V.C. plug bend, necessary fittings such as offsets, shoes including fixing the pipe on wall using approved GI brackets projecting 25mm to 40mm from face of wall, filling the joints using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks and maintenance for 3 years for any type of leakages or dislocation of pipes. All the PVC fittings and additional two piece socket clips shall be got approved from Engineer In-charge etc. all complete as directed by Engineer Incharge. (Make-Finolex/Kissan/Prince)	50.00	Rmt
249	Providing and fixing P.V.C. soil / waste water pipes 110mm inner dia. and having wall thickness of 2.5 to 3.2mm conforming to I.S. including with P.V.C. plug bend, necessary fittings such as offsets including fixing the pipe on wall using M.S cleats projecting 25mm to 40mm from face of wall and fixing with clips of approved quality and number or laying the pipe on slab in the concrete, filling the joints with PVC solvent including necessary scaffolding and making connections to existing chambers by drilling hole and make it watertight etc. all complete as directed by Engineer Incharge.	50.00	Rmt
250	Providing and fixing P.V.C. soil / waste water pipes 75mm inner dia. and having wall thickness of 2 to 3.2 mm conforming to I.S. including with P.V.C. plug bend, necessary fittings such as offsets, tee,elbow including fixing the pipe on wall using approved M.S cleats projecting 25mm to 40mm from face of wall and fixing with clips of approved quality and number or laying the pipe on slab in the concrete, filling the joints using rubber gasket with solvent cement including necessary scaffolding and making connections to existing chambers by drilling hole and make it watertightetc. all complete as directed by Engineer Incharge.	50.00	Rmt
251	Providing core cutting of any size and depth in reinforcement concrete or any other materials etc. all complete as directed by Engineer In-charge.	2.00	Nos
252	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 all complete as directed by Engineer In-charge.	5.00	Cum
253	Providing and fixing 100mm(ID) dia.ISI approved HDPE pipes manufactured by ARHAM Engineering/ BERLIA /NOCIL / PILwith wall thickness of 6 mm to 8mm for taking sewage waste water with all required fittings such as bend, elbows etc. with proper line and gradient connecting all joints with fusion butt welding by using suitable welding machine or hot plate, testing the line & joint as per manufacturer specification etc. all complete as directed by Engineer In-charge.	20.00	Rmt
254	Providing and fixing PE 100 & PN 6 having 150 mm dia.(ID) ISI approved HDPE pipes ARHAM Engineering/ BERLIA /NOCIL / PIL with wall thickness of 6 mm to 8mm for taking sewage waste water with all required fittings such as bend, elbows etc. with proper line and gradient connecting all joints with fusion butt welding by using suitable welding machine or hot plate, testing the line & joint as per manufacturer specification etc. all complete as directed by Engineer In-charge.	25.00	Rmt
255	Providing and fixing CP Two way Bib tap with wall flange (CON-CHR-041KN) 15mm size, jaquar make heavy type including necessary fittings and fixtures etc. all complete as directed by Engineer In-Charge.	100.00	Nos

Sr. No.	Description of work	Qty.	Unit
256	Disposing debris, loose stones, boulders, concrete pieces 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 as per instruction of engineer In-charge / his representatives (30% voids will be deducted in case of truck measurement) etc all complete as directed by Engineer Incharge.	5.00	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 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.

R. Chavhan
31/12/2024

Superintending Engineer (I/C)

Oik

Chavhan
J.E.
31.12.2024