



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.	Major external repairs, painting and need based waterproof treatment for DRDO Building at Hillside area. EO/A/HILLSIDE/WKS-164/24-25	Rs.1,20,62,529/-	Rs 2,41,000/-	06 months	6100062017

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 24.01.2025 to 05.02.2025 till 11:15 a.m. Date of opening of **Technical Bid will be 05.02.2025 at 11.30 a.m. and and Financial Bid 12.02.2025 (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.2,41,000/- (EMD amount) drawn in favour of "The Registrar, IIT Bombay" on online Tendering Portal.

15) Power of Attorney, if any.

16) Proof of Constitution: An affidavit in case of Sole Proprietorship, Partnership Deed in case of Partnership Firm, Article of Association in case of Private / Public Limited Companies.

17) **Litigation history of the agency** is required to be submitted along with the application. A tender would not be awarded if any inquiry proceeding / criminal case is found pending against the agency.

Note:

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

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

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

The validity of the bids will be valid for 6 months from the date of opening of tender.

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

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

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

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

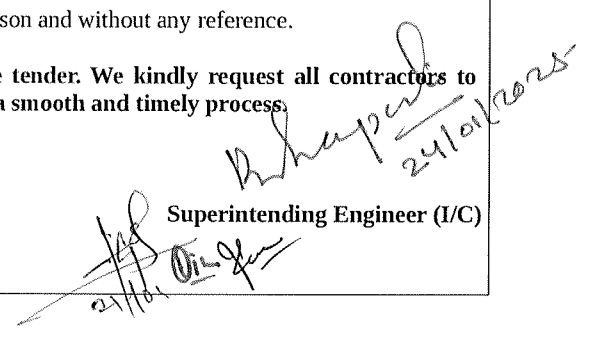
Rates of an estimate are based on CPWD-DSR 2021 & rate analysis.

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

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

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

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


Superintending Engineer (I/C)

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/HILLSIDE/WKS-164/24-25

Name of Work : Major External repairs, painting and need based waterproof treatment for DRDO bldg at Hillside area.

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.

R. Chappal
24/01/2025
Superintending Engineer (I/C)

Signature of Contractor
Name & Address in full

WORKS UNDERTAKING

EO/A/HILLSIDE/WKS-164/24-25

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

Sub : Major External repairs, painting and need based waterproof treatment for DRDO
bldg at Hillside area.

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 06 Months as mentioned in the notice inviting for short tenders.

The following information is required to be provided.

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

	Male	Female
No. of Unskilled casual labour to be required per day.		
No. of Skilled casual labour to be required per day.		
Total Mandays required for completion of work.		

Thanking you,

Yours faithfully,

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

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI-400 076.

EO/A/HILLSIDE/WKS-164/24-25

ESTATE OFFICE

Name of Work :- Major External repairs, painting and need based waterproof treatment for DRDO bldg at Hillside area.

SCHEDULE OF WORK

Sr. No.	Description of Work	Qty.	Unit
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum including removing the excavated materials upto a distance of 50 meters beyond the building area, and lift upto 1.50 metres, stacking and spreading as directed including preparing the bed for the foundation and necessary backfilling, ramming, watering complete excluding shoring and strutting.	8	Cum
2	Laying dry trap/ rubble stone soling of 230mm size thickness including hand packing and compacting including breaking and making/cutting stone/boulders in required size, lead and lift from any where in the campus etc. Complete.	2	Cum
3	Providing and laying in situ plain cement concrete M-20 having proportion not less than 1:1.5:3 with minimum cement content of 360kg/cum as per IS 456-2000 for foundation and bedding The rates shall includes bailing out water manually centering shuttering compacting by vibrator and curing etc., complete.	4	Cum
4	Providing and laying in position in situ plain cement concrete M-20 grade with minimum cement content of 360kg/cum as per approved mix design as per IS 456-2000 by Engineer in charge for storm water drain wall coping and staircase pardi including admixtures to accelerate/ retard setting of concrete improve workability without impairing strength and durability. The rates shall includes bailing out water manually centering shuttering compacting by vibrator and curing etc complete.	9	Cum
5	Dismantling plain cement concrete work including breaking concrete by mechanical means/ chiseling, wedging etc., and stacking the debris upto a distance of 50 meters or spreading/leveling in low laying area as directed by Engineer Incharge.	9	Cum
6	Dismantling R.C.C. work including breaking concrete by mechanical means, chiselling, wedging etc., cutting the reinforcement, stacking the serviceable materials and stacking the debris upto a distance of 50 metres or spreading/leveling in low laying area as directed by Engineer Incharge. as directed.	2	Cum
7	Providing and casting in situ dense and impervious cement concrete M-25 of trap metal for R.C.C. overhead water tank slab, lintel, beam and chajja as per detailed designs and drawing or as directed by Engineer Incharge including erecting plywood shuttering with strutting,propping etc. and removal of formwork, necessary compaction,curing etc Only steel centering and formwork is to be used.	2	Cum
8	Pulling down stone masonry in cement mortar with plaster/pointing without dust nuisance including sorting out stone chips and debris separately and stacking upto a distance of 50 metres or spreading the debris etc. Complete.	1	Cum

9	<p>Exposing the existing damaged RCC members like columns, beams, slabs, chajjas, paradi, fins etc in patches or any length by using electrical cutting tools up to any depth till the corroded reinforcement will be opened allround without damaging brickwork, plaster in the vicinity, cleaning, stacking the debris with in 50 meters or spreading/leveling in low laying area as directed by Engineer Incharge, cleaning the site etc. complete, including covering the furniture with plastic sheet while exposing concrete. Note :- Proper tools to be used for removal of concrete.</p> <p>The exposed area shall be measured for the payment of this item.</p>	790	Sqm
10	<p>Old reinforcement treatment providing and applying reinforcement treatment, comprising of following operations.</p> <p>Cleaning the reinforcement from all sides by using wire brush, tools etc.</p> <p>Application of rust converter such as Alkaline base(Rust kill A) as per manufacturers specification, cleaning as directed complete.</p> <p>Actual consumption of Alkaline base converter shall be measured for payment on weight basis. Invoice of authorized dealer will be verified.</p> <p>The chemical to be procured in sealed container & seal to be opened in presence of the IITB representatives.</p>	80	Kg
11	<p>Providing and applying an effective bond coat of Polymer (SBR) Stuco latex of structural waterproofing (Cicco)/ Resicon 400, and cement in the proportion of 1:1 by using brush in multiples of coat as required to accommodate the whole thickness of PMM wherever required on the surface of old concrete / repaired concrete Polymer (SBR) of approved manufacturer should have the following properties</p> <p>Suspended solid particles should not be less than 40%.</p> <p>Specific gravity should not be more than 1.01</p> <p>PH should not be less than 8.5</p> <p>Note: The actual consumption of bond coat shall be measured for payment on weight basis. Invoice of authorized dealer will be verified.</p> <p>The chemical to be procured in sealed container & seal to be opened in presence of the IITB representatives</p>	350	Kg
12	<p>Providing and 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. Complete. (Payment will be paid for the actual quantity of polymer mortar PX used on weight basis. Invoice of authorised Dealer will be verified etc all complete as directed by Estate office).</p>	29625	Kg
13	<p>Providing and erecting steel tublar props of required height upto 14' feet, L head or flat head braced at center and supporting a continuous 2" x 3" wooden runner, resting on wedge and block minimum capacity 3 ton to support the structure provisionally during repair and jacketing etc. And maintaining them in position till completion of all related items Complete.</p> <p>The props are erected in perfect vertical in plumb taking/ transferring the load equally/ uniformly. The location of every prop should be one over another floor and it should not be eccentric. The tightening of every prop should be uniform to all props to strain the building uniformly. The work should be carried out with all the safety measures like helmet, safety belt and adequate labour insurance under the supervision of qualified supervisor</p>	20	per No.
14	<p>Cutting, demarcating grooves at any height with electrically operated cutter machine between sound and unsound plaster, cracks on external wall, separation cracks Including step ladder if required etc. complete.</p>	200	Rmt

15	<p>Providing and filling separation crack of 75mm width and 25mm deep with polymer modified cementitious mortar.</p> <p>a) Demarcating groove, removing plaster / concrete carefully, washing with potable water.</p> <p>b) 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 cleaning, finishing to match the plaster in vicinity, disposing of debris anywhere in IITB campus, cleaning as directed Including step ladder if required etc. complete.</p> <p>c) Proportion</p> <p>d) Bond coat</p> <p>e) SBR polymer + cement in the ratio 1:1 by volume</p> <p>f) Polymer modified cementitious mortar</p> <p>g) SBR polymer 150ml.</p> <p>h) Cement 1 Kg.</p> <p>i) Silica sand 3.0 kg.</p> <p>(Note: - Demarcating groove, breaking plaster / concrete shall be paid under respective items).</p>	200	Rmt
16	<p>Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris upto a distance of 50 meters or spreading/leveling in low laying area as directed by Engineer Incharge and cleaning the site including , covering window/opening with plywood while removal of plaster etc complete</p>	1600	Sqm
17	<p>Providing sand face plaster externally using approved screened sand in all positions including base coat of 15 to 20 mm thick in cement mortar 1:4 sand as per IS 383 using water proofing compound Accoproof/Impermo 2% by weight of cement and curing the same for not less than two days and keeping the surface of base coat rough to receive the sand faced treatment 6mm thick in cement mortar 1:3, finishing the surface by taking out grains and curing for 14 days etc. complete.</p>	320	Sqm
18	<p>Apply external waterproof plaster using factory made ready mix polymer cement mortar plaster.</p> <p>1) 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 waterproofing plaster of approved make (M/s Wall plast, M/s. Fare Matt) or equivalent.</p> <p>2) 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 specification) to receive the top finish coat</p> <p>3)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 machnised 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>	1270	Sqm
19	<p>Providing internal cement plaster 12mm to 20mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces in all positions and curing complete.</p>	100	Sqm

20	Providing and Placing in position Readymix Plaster manufactured by M/s. A. V. Conchem, Ultra-Tech Cement, Ready Plast, up to 20mm thick in one coat and adding water in the proportion of 1:0.17(Ready Mix Plaster : water) at any floor over the prepared Brick wall, Solid ,Hollow & AAC block work and Concrete RCC surfaces, as directed mixing the Readymix Plaster with water using forced action mixer , mild curing will be done with water for 3-5 days etc complete. (Invoice of authorized dealer will be verified)	50	Sqm
21	Removing the loose/damaged cement concrete top layer/IPS layer manually /by mechanical means without damages/ disturbing to slab/ beam,column/ any RCC members/ Structural including disposing of material within 50 meter lead as per the direction of Engineer-in-charge (throwing down the material from terrace will not be allowed)	210	Sqm
22	Removing the existing loose and damaged brickbat coba waterproofing treatment/finishes as IPS/ tiling/ side plaster from the terrace/WC/ bath up to any thickness with out making any damages to the slab with the use of sharp chisels, levelling and cleaning the surface including lowering down debris and stacking the debris upto a distance of 50 meters or spreading in low lying area and levelling as directed. etc. all complete.	21	Cum
23	Providing waterproofing in W.C and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on virgin concrete slab with waterproofing compound @ 1Kg/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1Kg/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1Kg/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten year's guarantee on requisite stamp paper including all leads, lifts and curing etc, complete.	21	Cum
24	Providing and laying water proofing cement concrete flooring/IPS to terrace to average 50mm thick with 1:2:3 cement concrete laid to proper level and slope using river sand including compaction, adding recommended waterproofing admixtures @ 2% by weight including finishing the top layer, testing the roof by ponding with water for 28 days, providing waterproofing guarantee for 7 (seven) years in requisite non judicial stamp paper in favour of IITB etc. complete.	210	Sqm
25	Providing second class burnt brick masonry with conventional / I.S. Type bricks in cement mortar 1:4 in superstructure including striking joints, racking out joints, watering etc. complete.	3	Cum
26	Providing and laying super fluid micro concrete of IITB approved manufacturer for exposed RCC member like slab,column,beam,staircase pardi,lintel mixed proportion as per manufacturers specification at any floor providing and fixing plywood form work in line and level, cleaning, curing etc. complete. the compressive strength of super fluid micro concrete should be 25N/sqmm .including working platform	5000	Kg
27	Providing and fabricating structural steel works in rolled sections angles, flat patii tees for balcony>window,bison board framing as per existing design & pattern including fixing in position with connecting plates, braces and welding,as necessary including a coat of Zink primer & two coat of Synthetic Enamel Paint etc. complete.	500	Kg

28	Removing door and windows of any size and type 'with frame' mild steel / wrought iron grill work and stacking the same in estate store (civil)/as directed by engineer in charge	5	per No.
29	Removing door and windows shutters of any size and type 'without frame' and stacking the same in estate store (civil)/as directed by engineer in charge	5	per No.
30	Providing and fixing C.P. teak sizes as per existing frames wood frame for doors/ventilators/windows,etc including all mouldings rebating holdfasts and finishing including 1 coat of cold tar to be applied on backside of frame in fixing MS hold fast as per site requirement with screws and 2 coats of SEP of existing colour/shade of the bldg over a one coat of wood primer etc. complete. Mode of measurement will be finished size of teakwood. Contractor will be allowed to take away old frame and for which 5% deduction will be made of schedule rate of this item. Note: Sample testing to be carried out from each lot as per IS requirement before commencement of work at contractor's risk and cost.	0.10	Cum
31	Providing and fixing 20mm thick cement bonded wood particle board (bison panel) ISI make for chajja/passage window at any floor on M.S. Angle frame and will be paid under respective item, providing suitable hole for fixing nuts and bolts and vent pipe of any diameter making suitable groove on plaster and vatta, proper slope complete as directed. Note :- Holes to be made on the wall has to be done by using drill machine and groove by groove cutting machine precoated Bolts/ hook to be grouted in the wall by using of approved polymer mortar after cleaning and applying polymer bond coat in cement mortar 1:1 ratio	10	Sqm
32	Providing and fixing SS 304 mosquito mesh shutter in 3 track partly sliding aluminium window /partly fixed for the provision of exhaust fan with heavy anodised section 15 micron including aluminium hollow section of size 100mm x 40mm x 2 mm by p/f track bottom of size 92 x 45 x 1.5mm, track sides/top of size 92x 31 x1.2mm, shutter of interlocking section 40 x 18 x 1.5 mm,bearing bottom 52 x 18 x 1.5 mm,top/side section of 40x18x 1.5 mm with 3/8" channel including fixing of 5mm thick plain glass and p/f 7"star lock with all the necessary fittings like rubber gasket, wool foil ,screws,along with anodizing of alumunium section, filling the gaps with binding material like silicone sealant etc as directed by Engineer incharge	2.50	Sqm
33	Providing and fixing in position Four track (3 + 1) aluminium Domal Sliding window using shutter sections of (27mm x 65mm Domal Section), 136mm x 50mm for drain bottom, sides and top. (weight not less than 2.5 kg/mtr) The shutter should be of Handle Interlocking, bearing bottom of size 27mm x 65 mm (weight not less than 0.90 kg/mtr) Domal Clip (weight not less than 0.315 kg/mtr) , including providing and fixing 5mm thk. glass in the 3 no shutters using rubber gasket and mosquito mesh in 1no shutter in approved quality minimum two nos. PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, etc and making necessary opening for eshaust wherever required, etc Complete as directed by Engineer in charge. Note: 1) All aluminium sections 15 micron anodized/ powder coated. 2) Upto 10% variation in the running meter weight of the sections is only allowable.ons 15 micron anodized/ powder coated).	2.50	Sqm

34	<p>Providing and fixing in position five track (4+1) aluminium Domal Sliding window with four fully glazing shutters and one mosquito shutter using shutter sections of (27mm x 65mm Domal Section), 147mm x 36mm for drain bottom, sides and top (weight not less than 2.02 kg/mtr) The shutter should be of Handle Interlocking, bearing bottom of size 27mm x 65 mm (weight not less than 0.90 kg/mtr) Domal Clip (weight not less than 0.315 kg/mtr) , including providing and fixing 5mm thk. glass in the 4 no shutters using rubber gasket and mosquito mesh in 1no shutter in approved quality minimum two nos. PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, etc. Complete as directed by Engineer in charge.</p> <p>Note: 1) All aluminium sections 15 micron anodized/ powder coated. 2) Upto 10% variation in the running meter weight of the sections is only allowable.</p>	4	Sqm
35	<p>Supplying, fabricating and fixing in position fully glazed aluminium opeanable window using aluminium 15 micron anodized / powder coated section 42 x 30 x 1.25mm size aluminum single border outer frame of window shutter, 42 x 46.2 x 1.35mm size aluminum Z section for window shutter, 28 x 14.5 x 1.60mm size aluminum clip for window shutter, 42 x 46.2 x 1.35 mm size aluminum center patti (mullion), 43 x 1.5mm size aluminum flat patti, 37mm x 37mm and 25mm x 25mm aluminum angles 2mm thick, 20 x 1.5mm thick aluminum glazing clip, 5mm thick plain or frosted glasses with rubber gasket, 3 Nos. S.S. hinges 75mm size (heavy) on each window shutter, , aluminum stay 200mm to 250mm long 1 No per leaf, aluminum handle 1 Nos. per leaf, provision for fixing AC with teak wood members inside box, (if required) including fixing the windows shutters on the aluminium single side partition section for outer frame and intermediate section of size 63x38x1.47mm thick etc complete (all aluminium sections should be 15micron anodized/power coated section).</p>	2	Sqm
36	<p>Providing and fixing C-Class G.I. pipes 15mm internal diameter heavy type weight and outer dia ,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls / slabs Including etc, and remaking good the demolished portion to restore the same in original condition neatly and applying Zink primer and two coats of SEP painting including removing the existing pipe, if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item</p>	350	Rmt
37	<p>Providing and fixing C- Class G.I. pipes 20mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls / slabs Including etc, and remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe, if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item</p>	200	Rmt

38	Providing and fixing C-Class G.I. pipes 25mm internal diameter heavy type weight and outer dia, as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings, etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls / slabs Including etc, and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of SEP including removing the existing pipe, if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .	300	Rmt
39	Providing and fixing C-Class G.I. pipes 40mm internal diameter heavy type weight and outer dia, as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings, etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls / slabs Including etc, and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of SEP including removing the existing pipe, if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .	450	Rmt
40	Providing and fixing ISI-1729-2002 grade 75mm dia. ISI make NECO/ ALCO cast iron waste water pipe with lugs to receive grey water from Nahani traps of Kitchen/ Toilet / Bath/ Dry balcony etc by making gabada and finishing good , with necessary fittings such as bends, tees, single junctions, double junctions, slotted vent and any kind of C.I fittings which are required for proper alignment of pipe network etc , offsets on walls or into the ground including filling joints with cement mortar 1:2 proportion fixing on wall by means by galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer projecting 50mm from face of wall and painting the exposed faces with one coat zinc primer and two coats of anti corrosive paint Including removing the existing AC/CI/PVC pipe if available contractor will be allowed to take away old pipes and for which 5% deduction will be made of schedule rate of this item etc.	300	Rmt
41	Providing and fixing ISI-1729-2002 grade 100mm dia. ISI make NECO/ ALCO cast iron waste water pipe with lugs to receive grey water from Nahani traps of Kitchen/ Toilet / Bath/ Dry balcony etc by making gabada and finishing good , with necessary fittings such as bends, tees, single junctions, double junctions, slotted vent and any kind of C.I fittings which are required for proper alignment of pipe network etc , offsets on walls or into the ground including filling joints with cement mortar 1:2 proportion fixing on wall by means by galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer projecting 50mm from face of wall and painting the exposed faces with one coat zinc primer and two coats of anti corrosive paint Including removing the existing AC/CI/PVC pipe if available contractor will be allowed to take away old pipes and for which 5% deduction will be made of schedule rate of this item etc.	140	Rmt

42	Providing and fixing P.V.C. rain water pipes 110mm outer dia. and having wall thickness of 2.2 to 2.7mm conforming to I.S. 13592-1992 including proper rain water receiving recess with P.V.C. plug bend P.V.C reducer to fix existing G.I pipe to 75mm new P.V.C pipe including sealing gap between old and new pipe. Including cutting GI spout of balcony as required or as directed by Engineer In charge necessary fittings such as offsets, shoes including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall & fixing with clips of approved quality & number, filling the joints using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding, and maintenance for 3 years for any leakages or dislocation of pipes. All the PVC fittings and additional two piece socket clips shall be got approved from Engineer in charge etc. Complete (The contractors shall give 3 years guarantee bond for payment)	120	Rmt
43	Providing and fixing 25 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete.	50	per No.
44	Providing and fixing 40 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete.	10	per No.
45	Providing and fixing 40 mm dia (n.b) gun metal UTAM make Ball valve Heavy Duty of approve make, and fixing in proper position with spurn yarn, adhesive etc. Make Zoloto/ AM/ Leader etc. all contractor will be allowed to take away old ball valve if available and for which 5% deduction will be made of schedule rate of this item etc complete	1	Nos
46	Providing and laying temporary loop connection to main water supply inlet and outlet of water tank with 'C' class pipe upto 6 meter of length or as required of any dia elbows, tees, reducers, plugs, clamps etc. including other connections and commissioning the water supply line and remaking to original connections after repair etc. complete.	1	Per Job
47	Providing and laying black colour granite slabs 16 to 18mm thick of approved quality colour door / windows sill / cladding, on a bed of 1:4 cement mortar including rounding / moulding of nozzles / adjust, filling joints with white cement to match colour of slab, curing polishing etc complete. a)75/80mm wide	20	Rmt
	b)100/110mm wide	20	Rmt
48	Providing and laying black colour machine cut mirror polished granite stone slab required size and 16mm to 18mm thick of approved quality and colour for kitchen platform/cupboard shelves in required pattern laid on a bed of cement mortar 1:6 including neat cement float, filling joints with neat coloured cement slurry, curing, hand polishing and cleaning complete.	2	Sqm
49	Providing and applying Birla wall care white cement based putty as per manufacturer's specifications in approved shade and colour to existing rough surfaces/ plaster surface/brick wall and ceiling as directed by Engineer in charge etc, complete	300	Sqm
50	Providing and applying one coat of cement primer of approved manufacturer (Asian paints Decoprime wall primer or any other approved equivalent product of ICI or Goodlass Nerolac as directed by Engineer and as per manufacture specification including .Scr	680	Sqm

51	Providing and applying two coats of exterior Acrylic exterior paint including exterior primer of approved colour and shade to the plastered surface as per manufacturers specification including preparing the surface Including stepladder etc, complete	5125	Sqm
52	Providing and applying one priming coat to wood and wood based surface etc including preparing the surface by thoroughly cleaning oil, grease, dirt, and other foreign matter with wire brushing, fine fire steel wool, and sand paper as per manufacture specification step ladder etc. Complete. (Note:- Contractors have to procure the paint materials in sealed containers. Containers will be opened in presence of IIT representative. Spilling over paint on other areas externally as well as internally such as wall, floor furniture's etc are not allowed. If it occurs, it has to be cleaned by contractors completely at his own cost.)	50	Sqm
53	Providing and applying one priming coat to over steel and other metal surfaces etc including preparing the surface by thoroughly cleaning oil, grease, dirt, and other foreign matter with wire brushing, fine fire steel wool, and sand paper as per manufacture specification etc. Complete.	100	Sqm
54	Providing and applying two coats of synthetic enamel paint of approved colour to new/old structural steel work and wood work in buildings and workshops including as per manufacture specification step ladder if necessary, cleaning and preparing surfaces by solvent, degreasing and derusting by manual scrapping/mechanically by sand blasting/shot blasting flame cleaning/by chemical methods etc,complete. (excluding primer coat)	150	Sqm
55	Removing any kind debris including loading in truck and conveying to dumping point approved by BMC, unloading spreading etc, complete with all leads and lifts. 30% voids will be deducted in case of truck measurements. (The debris /boulders /excavated stuff/surples material to be taken away after the permission from the Executive Engineer(SWM) is required to be obtained before commencement of work.	107	Cum
56	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, 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 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 Engineerin-charge . Note:The elevational area of the scaffolding shall be measured for payment purpose . Note:The payment will be made once for sequential works at a particular location irrespective of duration of scaffolding.	1140	Sqm
57	Removing door and windows of any size and type 'with frame' mild steel / wrought iron grill work and stacking the same in estate store (civil)/as directed by engineer in charge	5	per No.
58	Providing and fixing anodized 75+20 micron aluminium louvered ventilators in staircase window using 75mm x 25mm x 16 guage thick aluminium (Jindal make) section for outer frame, 5mm thick frosted glass 100 to 150mm wide panes for louvers at proper inclinations. Providing and fixing U – channels for glasses,filling all joints with proper fillers etc. all complete. Note:contractor will be allowed to take away old window if available and for which 5% deduction will be made of schedule rate of this item	7	Sqm

59	<p>Providing and applying acrylic synthetic plaster (Dura plaster) of IITB approved make manufacturer over existing cement plaster or concrete surface including removing existing paint/synthetic plaster to receive the acrylic synthetic plaster as per manufacturer specification Including all the necessary tools & plants,stepladder etc,including mechanical cleaning of the external surface and treating surface in sound, clean and free from dirt, oil and other loose material and may be done with vacuum cleaning and by means of coir / wire brush followed by water washing. All surface cracks upto 5 mm width will be filled up with Dr. Fixit Crack X paste or similar material etc all complete as directed by Engineer in charge.</p>	5260	Sqm
60	<p>Providing and applying exterior coating for walls of multistoried building including mechanical cleaning of the external surface and treating surface in sound, clean and free from dirt, oil and other loose material and may be done with vacuum cleaning if required. All surface cracks upto 5 mm width will be filled up with Dr. Fixit Crack X paste or similar material. The external surface will be primed with Dr. Fixit Primeseal (or equivalent BASF/ FOSROC/ STP) diluted with potable water in the ratio of 2:1 by volume prior to application of Dr. Fixit Raincoat waterproof coat. Allow it to dry for at least 2 to 3 hours and then apply Dr. Fixit Raincoat waterproof coat or equivalent (BASF/ FOSROC/ STP) having DFT of 100-120 micron DFT.Apply second coat of Dr. Fixit raincoat Select Top Coat with interval of 6-8 hours to achieve DFT of 60-70 microns. Apply with roller or spray allow it to air cure for 7 days. Do not dilute Dr. Fixit Raincoat waterproof Select top coat by any means. Work includes cleaning the surface thoroughly, watering the surface etc. complete including covering the floor, window glass with plastic sheet, removing & refixing existing grill while work in progress and as directed by this office. and work shall be guaranteed for 3 years by the contractor on requisite stamp paper. The maerial having following technical properties : Elongation of >100% as per ASTM D 412; Tensile strength 2.50Mpa per ASTM D 412, passes water resistance as per SS500 standard, complies to anti carbonation test as per EN 1062 part 6. (Double steel scaffolding will be paid in respective item)</p>	150.00	sqm
61	<p>Providing and applying three coats of Dr. Fixit Roof seal coating including preparing surface by pressure washing the surface to remove all algae, mould, dirt, dust, chalking and waste products. All visible hairline cracks more than 0.50mm and not giving hollow sound on the IPS/screed or at the junctions of flat roof & vertical parapet wall, pipe joints, should be cut and widen V shape with mechanical cutter in the size (6mm W x 6mm D) and fill with Dr. Fixit PU Sealant covering the entire area uniformly with suitable gun. Allow sealant to cure a minimum 24 hours. Apply minimum 50mm - 100 mm width 45 GSM Glass Fibre Mesh / non-woven geo textile fleece with the coat of Dr. Fixit Roofseal Select along the length of crack. Apply one coat of Dr. Fixit Primeseal primer dilute with water in the ratio 2:1. Allow it to dry for 2 to 3 hours. Apply 1st coat of Dr. Fixit Roofseal Select at the rate of 2.0 sqmt / litre / coat. An open 45 Gsm glass fibre mesh of 2.5 mm x 2.5 mm must be sandwiched between the first and second coat. While the 1st coat is still wet, place the fibre mesh on it. Allow the first coat to dry for 6-8 hours. Apply second coat of Dr. Fixit Roofseal Select with the same application coverage. Application direction of second coat should be perpendicular to that of the first coat. Allow second coat to dry for 6-8 hours. Apply third coat of Dr. Fixit Roofseal Select at an application direction that is perpendicular to that of the second coat with same application coverage rate. Check to see no void surface is left untreated / uncoated. Allow the system to air cure for 7 days minimum. A total thickness of 1 mm must be achieved when Dr. Fixit Roofseal Select is dry. Work Shall be got executed through certified applicator of the product manufacturing company only and work shall be guaranteed for 03 years by the contractor on requisite stamp paper including submitting written guarantee from said certified applicator.Contractors to submit re-counsillation statement along with challans for work done.</p>	210	sqm

62	Providing and applying one coat acrylic oil-bound distemper of approved quality colour and shade of IITB approved manufacturer to old/new surfaces including step ladder etc, complete.	100	Sqm
63	Providing and applying two coats of acrylic oil-bound distemper of IITB approved manufacturer & quality colour and shade as per product specification on old/new surfaces including removing the old peeled off neeru finish /pop/ existing luster paint / wa	680	Sqm
64	Providing and fixing anodized / powder coated 75+20 micron aluminium fixed glass ventilators having provision for exhaust in WC area using 50mm x 25mm box pipe of 2 mm thick aluminium (Jindal make of weight not less than 0.767kg/m) section for outer frame, 5mm thick modiguard glass. Providing and fixing F-clip for glasses with rubber gasket, filling all joints with proper fillers etc. Including removing the old aluminum window etc.all complete Powder coating of aluminium section will have to be tested in the laboratory of IITB / VJTI / SPCE and the testing charges are to be paid by the contractor.	26	Sqm
65	Providing and fixing P.V.C. rain water pipes 'A' Type 160mm outer 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 M.S brackets projecting 25mm to 40mm from face of wall & fixing with heavy duty PVC clips of approved quality & number, filling the joints using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including maintenance for 3 years for any leakages or dislocation of pipes. All the PVC fittings and additional two piece socket clips shall be got approved from engineer in charge complete.	60	Rmt

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

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

3) This work is to be executed as per the the clauses mentioned in the tender document signed by you. In addition to the existing safety clause of the tender 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.

[Signature]
24/01/2025
Superintending Engineer (I/C)