



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
ESTATE OFFICE
NOTICE INVITING TENDER

Telephone No. 022 2576-4060,022-2159-6922 email id 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.)	EMD (Rs.)	RFX	Duration of contract
1	Repairs, Renovation and Maintenance Works including Painting in Various Quarters (Type-I 10,19,20, MW-01,02, H1-15, QIP 01 & 02, MRSB,Old Dining, DRDO, Type 2B-20) at Hillside Area of IITB. EO/A/HILLSIDE/WKS-19/26-27	Rs 32,57,230/- Incl.18% GST	Rs.65,000/-	6100003020	06 months

Intending bidders need to register themselves on the IIT Bombay portal i.e. <https://portal.iitb.ac.in/vrp/index.jsp> to get User ID and Password. Please visit https://portal.iitb.ac.in/vrp/vrp_srm_docs.jsp for configuration process and user manual. For queries regarding vendor registration, and configuration process please contact on 022 - 2159 3001 (MDM Help-desk).

All tender documents, forms, etc are available online on <https://www.iitb.ac.in/resources/vendors-tenders> and Central Public Procurement Portal (CPPP) e-tender publishing portal of the Government of India.

Date and time of uploading of tender documents are from 06.05.2025 to 26.05.2025 till 11:15 a.m. Date of opening of Technical Bid will be 26.05.2025 at 11.30 a.m. and Financial Bid 29.05.2025 (Tentative).

All contractors/agencies should submit technical bid with the following documents, failing to which their tender will be summarily rejected from the tendering process:

1) i. Experience of having successfully completed works during the last 7 years ending last day of the month previous to the one in which applications are invited :

Three similar completed works costing not less than the amount equal to **40%** of estimated cost put to tender,

OR

Two similar completed works, costing not less than the amount equal to **50%** of the estimated cost put to tender

Or

One similar completed work of aggregate cost not less than the amount equal to **80%** of the estimated cost.

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) Upload a 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.

3) P. F. registration certificate.

MA. V. J.
Date
25/07

4) P. F. challans of last 12months.

5) ESIC registration certificate and copies of ESIC challans of the last 12 months (as per the labourers engaged during a particular month).Contractor name should be mentioned in the challans else the agency will be disqualified.ORContractors' all risks insurance (CAR policy)

6) PAN card.

7) GST registration certificate.

8) Income Tax Return for **assessment year** i.e. of **2023-24 ,2024-25 & 2025-26.**

9) List of Equipment's, Machinery, Tools.

10) List of Technical Staff with copies of their Degree/diploma certificate.

11) **Submit** DD/FDR/BG of Rs. 65,000/- in the name of "The Registrar, IIT Bombay" **before the opening of Technical Bid.** Contractors are also requested to upload a scanned copy of it to the online Tendering portal.

12) Power of Attorney, if any.

13) 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.

14) **Litigation history** of the agency is required to be upload along with the application. A tender would not be awarded if any inquiry proceeding / criminal case is found pending against the agency.If there is no enquiry then undertaking has to be uploaded in the format given.

15) Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank from the date of publishing of Tender.

16) 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 upload 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.

Terms & Conditions :

The documents listed below from Sr. No. 1 to 16 is mandatory for qualification in the technical bid evaluation process.

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.

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

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.

The rates is prepared from CPWD DSR 2023 & Ongoing Market Rates Analysis.

Contractors are strictly prohibited from engaging in any correspondence related to tender documents with anyone other than the Tender Section. Any violation will result in disqualification from all future tenders.

IIT Bombay reserve its rights to reject any or all tenders without assigning any reason and without any reference. IIT Bombay reserves the right to request a detailed justification of the quoted rates from the lowest bidder, if deemed necessary by the Engineer-in-Charge. Should the justification provided by the bidder be considered unsatisfactory or unsubstantiated, the Engineer-in-Charge shall have full authority to reject the bid, irrespective of it being the lowest.

R. Shrivastava
25/05/2026

Superintending Engineer (I/C)

Dr. J. G. Joshi

INDEX SHEET

Sr. No.	Content	Page No. From - To
1	Experience of having successfully completed works during the last 7 years ending last day of the month previous to the one in which applications are invited : Three similar completed works costing not less than the amount equal to 40% of estimated cost put to tender, OR Two similar completed works, costing not less than the amount equal to 50% of the estimated cost put to tender Or One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.	
2	Submit a copy of the information in respect of manpower/mandays for above said work must be given in undertaking with official signature and seal/stamp.	
3	Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank from the date of publishing of Tender.	
4	P. F. registration certificate.	
5	P. F. challans of last 12months.	
6	ESIC registration certificate and copies of ESIC challans of the last 12 months (as per the labourers engaged during a particular month).Contractor name should be mentioned in the challans else the agency will be disqualified.ORContractors' all risks insurance (CAR policy)	
7	PAN card.	
8	GST Registration certificate	
9	Income Tax Return for assessment year i.e. of 2023-24 ,2024-25 & 2025-26.	
10	List of Equipment's, Machinery, Tools.	
11	List of Technical Staff with copies of their Degree/diploma certificate.	
12	Earnest Money Deposit	
13	Power of Attorney, if any.	
14	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.	
15	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.If there is no enquiry then undertaking has to be submitted in the format given.	
16	Annexure 'A'	
17		
18		

Signature & stamp of the Contractor

DECLARATION

- (a) We are not involved in any litigation that may have an impact of affecting or compromising the works as required under this tender.
- (b) We are not black-listed by any Central/State Government/Public Sector Undertaking in India.
- (c) We hereby confirm and declare that M/s [Company Name] does not have any Litigation / Arbitration History with any Government department, Public Sector Undertaking (PSU), or Private Sector agency for works executed during the **last 5 years.**
- (d) I/we undertake that the documents submitted are genuine/authentic and nothing material has been concealed therefrom and that I/we are not debarred by any Government organization and are competent to have the contract. I/we understand that the contract is liable to be cancelled, if found to be having obtained, through fraudulent means/concealment of information.

(Signature of Authorized Signatory)

Name of the bidder: _____

Complete Address: _____

Address (Works), if _____

any: Contact Nos. _____

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/HILLSIDE/WKS-19/26-27

Name of Work : Repairs, Renovation and Maintenance Works including Painting in Various Quarters (Type-I 10, 19, 20, MW-01, 02, H1-15, QIP 01 & 02, MSRB, Old Dininig, DRDO, Type 2B-20) at Hillside Area of IITB.

Name of the Contractor -----

Sr. No.	Name of Client	Name of Works	2022-23 (In Lakhs)	2023-2024 (In Lakhs)	2024-2025 (In Lakhs)	2025-2026 (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.

Whapuli-
05/05/2026

Superintending Engineer (I/C)

Joy/S
Jin

Signature of Contractor
Name & Address in full

WORKS UNDERTAKING

EO/A/HILLSIDE/WKS-19/26-27

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

Sub : Repairs, Renovation and Maintenance Work including Painting in Various Quarters
(Type-I 10, 19, 20, MW-01, 02, H1-15, QIP 01 & 02, MRSB, Old Dining, DRDO,
Type 2B-20) at Hillside Area of IITB.

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-19/26-27

ESTATE OFFICE

Name of the work : Repairs, Renovation and Maintenance Works including Painting in Various Quarters (Type-I 10,19,20, MW-01,02, H1-15, QIP 01 & 02, MRSB,Old Dining, DRDO, Type 2B-20) at Hillside Area of IITB.

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.	0.50	Cum
2	Laying dry trap/ rubble stone soling of 230mm size thickness including hand packing and compacting using ITB stone including breaking and making/cutting stone/boulders in required size, lead and lift from any where in the campus etc. complete.	0.50	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.	0.50	Cum
4	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.	0.50	Cum
5	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.	0.50	Cum
6	Providing and casting in situ dense and impervious cement concrete M-25 of trap metal for R.C.C. 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.	0.50	Cum
7	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge 75 mm Avg Thickness	2.00	Sqm
8	50mm Avg Thickness	50.00	
9	25mm Avg Thickness	50.00	

10	<p>Old reinforcement treatment providing and applying reinforcement treatment, comprising of following operations. 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. Actual consumption of Alkaline base converter shall be measured for payment on weight basis. Invoice of authorized dealer will be verified. The chemical to be procured in sealed container & seal to be opened in presence of the IITB representatives.</p>	11.00	Kg
11	<p>Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer</p>	32.00	Kg
12	<p>Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. a)12mm avg Thickness</p>	50	Sqm
13	b)25mm Avg Thickness	50.00	Sqm
14	50mm Avg Thickness	50.00	Sqm
15	<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>	30.00	Sqm
16	<p>Removing the old cement concrete or any type of tiles from flooring/dado including back coat plaster levelling the surface, cleaning the site including sorting out servisable tiles and stacking the same and debris disposing off upto a distance of 50 meters or spreading/leveling in low laying area as directed by Engineer Incharge</p>	135.00	Sqm
17	<p>Providing internal cement plaster of 12mm thick in a single coat in cement mortar 1:4 without neeru finish to ceiling of concrete or brick surfaces in all positions and curing complete.</p>	10.00	Sqm
18	<p>Providing internal cement plaster of 20mm thick in a double coat in cement mortar 1:4 without neeru finish to wall of concrete or brick surfaces in all positions and curing complete.</p>	10.00	Sqm
19	<p>Providing waterproof plaster in wc/ bath/water tanks 20mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 kg per bag of cement of approved make and manufacturer and curing etc. Complete.</p>	45.00	Sqm
20	<p>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.</p>	9.00	Cum

21	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.	9.00	Cum
22	Pulling down burnt brick masonry (in cement mortar) with plaster including sorting out serviceable bricks and stacking the same and debris separately upto a distance of 50 metres or spreading the debris in low laying area and leveling etc. Complete.	0.50	Cum
23	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.	0.50	Cum
24	Providing second class burnt brick masonry with conventional / I.S. Type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of 2 bars of 6 mm diameter/2 hoop iron strips 25mm x 1.6mm at every third course properly bent and bonded at ends ,racking out joints and watering etc. complete.	2.00	Sqm
25	Providing and erecting steel tublar props of required height upto 14' feet, L head or flat head braced at center 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. 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	5.00	per No.
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	1000	Kg
27	Providing and laying non skid ceramic tiles of size 300mm x 300mm and thickness as per manufacturers specification of approved make for flooring in toilet/bath/balcony/common passage/lobby where surface area is less than 2 sq.mtr in required position laid on bed of cement mortar 1:4 including neat cement float, filling joints with neat cement slurry, curing and cleaning complete.	25.00	Sqm
28	Providing and laying 1 st quality glazed ceramic tiles of size 300mm x 200mm and thickness as per manufacturers specification of approved make for dado/wall in required position fixed with neat cement paste, curing and cleaning complete. Colour shade as approved by Engineer In Charge. Note :(Back coat plaster will be paid separately)	120.00	Sqm

29	Providing and laying vitrified mirror finish decorative type tiles like Somani/Kajaria/Regency/Bell/H.R.Jhonson/Nitco etc. of size 600mm x 600mm and thickness as per manufacturers specification 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. Complete	5.00	Sqm
30	Providing and laying cement concrete flooring 40mm thick with M-15 cement concrete laid to proper line level and slope including compaction, filling joints, finishing with brooming to receive floor tiles, etc., as directed, and curing complete.	5.00	Sqm
31	Machine mirror polishing to cement / marble mosaic tiled flooring or any other type of flooring including cleaning, washing, etc. Complete.	50.00	Sqm
32	Hand polishing to dado, skirting including cleaning, washing etc. Complete.	10.00	Sqm
33	Dismantling existing kitchen platform made of kadappa/concrete slab top and kadappa/concrete support carefully and lowering down the debris at ground level and stacking up to 50 meters beyond the building area or spreading/leveling in low laying area as directed by Engineer Incharge. as directed.etc, complete.	5.00	per No.
34	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. Area of slab upto 0.50m2	7.00	Sqm
35	Providing and fixing Kadappa stone slab for kitchen platform/cupboard shelves of approved type and design 25mm to 30 mm thick in cement mortar 1:4 including filling joints, curing, cleaning etc. complete.	36.00	Sqm
36	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. Area of slab over 0.50m2	20.00	Sqm
37	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	5.00	per No.
38	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	5.00	per No.

39	<p>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.</p> <p>Note: Sample testing to be carried out from each lot as per IS requirement before commencement of work at contractor's risk and cost.</p>	0.50	Cum
40	<p>Providing and fixing teakwood fully glazed single / double leaf windows / ventilators rectangular in shape adopting section of 70mm x 32mm for styles and rails as per existing pattern including providing and fixing 5mm thick plain / bajiri glass with teakwood beading, fixing the window / ventilator shutters with 75mm size brass butt hinges 2 Nos. for each shutter, aluminium towerbolt 100mm size one for each shutter, aluminium handle 125mm one for each shutter or as per site requirement, of classic/Archies make hooks & eyes 200mm one for each shutter, etc. including 2 coats of SEP of existing colour/shade of the bldg over a one coat of wood primer etc. complete.</p> <p>Contractor will be allowed to take away old frame and for which 5% deduction will be made of schedule rate of this item.</p> <p>Note : Sample testing to be carried out from each lot as per IS requirement before commencement of work at contractor's risk and cost.</p>	5.00	Sqm
41	<p>Providing and fixing solid core flush door in single leaf 35mm thick as approved by Engineer Incharge all necessary beads, moulding and lipping, and finishing lipping/beading brass oxidised fixtures and fastenings chromium plated handles,on both sides and finishing with 2 coats of existing colour/shade SEP over a coat of wood primer ISI make Duraboard/Kitply/Merino Ply etc. complete (without frame). contractor will be allowed to take away old shutter and for which 5% deduction will be made of schedule rate of this item.</p>	7.00	Sqm
42	<p>Providing and fixing 35mm FRP door manufactured by M/s. Advance,Company including brass hinges 4" 3nos, both side 4" brass handles, 8" brass aldrop for outside, brass latch from inside, etc. Complete as directed By Engineer In charge, including removing the damaged door and the contractor will be allowed to take away door, for which 5% deduction will be made of schedule rate of this item .</p>	8.00	Sqm
43	<p>Providing and fixing 600 x 450mm x 6mm thick mirrors of approved Indian quality copper plated with 10mm (3/8") thick plywood backing, in the masonry etc. Make Modi Guard/Saint-Gobain etc. complete. contractor will be allowed to take away old mirror if available and for which 5% deduction will be made of schedule rate of this item.</p>	10.00	Per No
44	<p>Providing and fixing 6mm thk Glass shelf 125mm (5") wide and 610mm (24") long with necessary chromium plated brackets providing teak wood gutties etc. Make Modi Guard/Saint-Gobain etc. complete. contractor will be allowed to take away old glass shelf if available and for which 5% deduction will be made of schedule rate of this item.</p>	6.00	Per No
45	<p>Providing and fixing in position night latch of approved make, quality and pattern with automatic locking arrangement, duplicate keys etc. make ISI Godrej/ Europa removing the old lock and depositing to estate office maint. Unit etc. complete</p>	6.00	Per No

46	Providing and fixing mortise lock of Godrej make 6 lever with keys in duplicate of IITB approved brand including removing the old lock and depositing to estate office maint. Unit etc. complete	2.00	Per No
47	Providing and fixing chromium plated towel rail 750mm long,20mm dia.and of approved quality fixed on chromium plated bracket including providing teak wood gutties in masonry etc. complete.contractor will be allowed to take away old towel rail if available and for which 5% deduction will be made of schedule rate of this item.	6.00	Per No
48	Providing and fixing Nylon wire for drying cloths with 1" dia Stainless steel pipe, Stainless steel Tee, Single wheel, double wheel, required Hook, and Nylon wire of 6mm dia meter required length and 6 rows of wires of adequate spacing including necessary fittings and fixtures etc. complete as directed by engineer In charge.contractor will be allowed to take away old drying cloth unit if available and for which 5% deduction will be made of schedule rate of this item Note;- Mode of measurement will be running meter of width 0.8 Mt. Including all above accessories.	10.00	Rmt
49	Providing and fixing for drying cloth unit 6mm dia nylon rope etc. complete contractor will be allowed to take away old rope if available and for which 5% deduction will be made of schedule rate of this item	100.00	Rmt
50	Providing and fixing G.I. Welded mesh 12mm x 12mm and (18 gauge) to teakwood frame work including fixing weld mesh with 37mm x 12mm teakwood bedding patti and necessary pocketing for opening for shutters with necessary screws , fitting as directed	15.00	Sqm
51	Providing and fixing new fitting with new screw, removing old broken fitting contractor will be allowed to take away old fitting and fixtures if available and for which 5% deduction will be made of schedule rate of this item wherever existing 4" Archies tower bolt	6.00	Per No.
52	6" Archies tower bolt	6.00	Per No.
53	5" Archies handle	6.00	Per No.
54	6" Archies handle	6.00	Per No.
55	Safety chain	50.00	Per No.
56	8" Tadipatti Aluminum Archies	6.00	Per No.
57	Rubber door stopper	100.00	Per No.
58	9" Archies hookness	6.00	Per No.
59	Providing and fixing 20mm thick cement bonded wood particle board (bison panel) ISI make to cover toilet duct/weather Shed 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 including 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	3.00	Sqm

60	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 metal primer & two coat of Synthetic Enamel Paint etc. complete.	100.00	Kg
61	Removing, making addition/ alternation and refixing existing two track Aluminum sliding window size 1.40 x 1.20m for provision of exhaust fan providing and fixing using required aluminium section aluminium pipe 3"x1" ,1"x2" T/B shutter channel,1"x3/4" 'F' channel & 1"x1 1/2"L' channel ,5mm clear glass, 3/4" bearing 4nos ,rubber gasket,wool foil, star lock including etc. complete.	2.00	Per Job
62	Providing and fixing shutter below platform and for cupboard made of aluminium anodized 15 micron or powder coated L type section for frame 38 x 25x1.2mm or near available handle section 40x18x1.2mm for shutter Top & bottom and sides, P/F 4mm thick hardner sheet of bakelite P/F stainless steel hinges 75mm x 20mm , S.S. Tower bolt and magnet . handle (S.S.) fixing shutter on aluminium frame with screws properly in line and level, etc. Complete.	10.00	Sqm
63	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 metal 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	15.00	Rmt
64	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	6.00	Rmt
65	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 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 .	6.00	Rmt

66	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 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 .	10.00	Rmt
67	Providing and fixing ISI-1729-2002 grade 75mm dia. ISI make NECO/ ALCO cast iron waste water pipe with lugs necessary fittings such as bends, tees, single junctions, double junctions, slotted vent, 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.	10.00	Rmt
68	Providing and fixing ISI-1729-2002 grade 100mm dia. ISI make NECO/ ALCO cast iron waste water pipe with lugs necessary fittings such as bends, tees, single junctions, double junctions, slotted vent, 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.	10.00	Rmt
69	Providing and fixing A- type P.V.C. waste water pipes 75mm dia. having wall thickness of 3.2 to 3.8mm conforming to I.S. including P.V.C. plug bend, necessary fittings such as offsets, shoes including fixing pipe on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer projecting 50mm from face of wall using approved filling the joints using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary , 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 complete.including removing the existing pipe,if available and contractor will be allowed to take away old AC/CI/PVC pipe for which 5% deduction will be made of schedule rate of this item .	10.00	Rmt
70	Providing and fixing 100mm(ID) dia.ISI approved HDPE pipes with wall thickness of 15 mm to 20mm for taking sewage waste water with all required fittings such as bend, tee, 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.	6.00	Rmt

71	Providing and fixing 150mm(ID) dia.ISI approved HDPE pipes with wall thickness of 15 mm to 20mm for taking sewage waste water with all required fittings such as bend, tee, elbows etc. with proper line and gradient connecting all joints with fusion butt weilding 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.	12.00	Rmt
72	Providing and fixing 15cm x 10cm salt glazed stone ware gully trap in cement concrete 1:4:8 outside the building including connecting to salt glazed stoneware pipe, brick masonry camber with cast iron lid for the gully trap etc. Complete as directed.	3.00	Per No.
73	Removing and refixing European W.C. pans including disconnecting the sanitary and water supply connections,and removing pan carefully and keeping in a side to carefully refix after completion of work etc. complete.	2.00	Per No
74	Providing and fixing Orrisa type White glazed earthenware 580mm x 450 mm water closet pan Parryware/ Hindwre/ cera make including trap, including cement concrete bedding, 10 litres capacity H.D.P.E. flushing cistern (Dual flush system) Parryware/ Hindware/ cera/ slimline make with fittings, inlet pipe with stop tap(Seiko), brackets, with fittings and clamps, and making good the walls and floors etc. complete. (excluding waterproofing with brick bat coba)	6.00	per No.
75	Providing and fixing 10cm cast iron nahani trap with fixed SS nahani trap jali, with ss rim cast iron plug bend and piece of cast iron pipe upto plug bend including removing old the hahani trap, breaking brickwork/concrete and redoing the same etc, complete contractor will be allowed to take away old nahani trap and for which 5% deduction will be made of schedule rate of this item. etc. complete.	9.00	per No.
76	Providing and fixing 10cm PVC Nahani trap fixed with PVC grating ,PVC plug bend and piece of PVC pipe upto plug bend including breaking brickwork/concrete and redoing the same, etc complete	5.00	per No.
77	Providing and fixing white glazed earthenware wash hand basin make Parryware /hindware /CERA/Jhonsan-Peddar/Hindustan/Nycer of 55cm x 40cm size including one pillar tap, C.I. brackets, stop tap and 1/2" PVC connection for inlet including outlet polyethylene waste water pipe upto required length making good the damaged surface, testing etc. Complete. contractor will be allowed to take away old wash basin if available for which 5% deduction will be made of schedule rate of this item.	5.00	Per No.
78	Providing and fixing white glazed earthenware wash hand basin make Parryware /hindware /CERA/Jhonsan-Peddar/Hindustan/Nycer of 450cm x 300cm size including one pillar tap, C.I. brackets, stop tap and 1/2" PVC connection for inlet including outlet polyethylene waste water pipe upto required length making good the damaged surface, testing etc. Complete. contractor will be allowed to take away old wash basin if available for which 5% deduction will be made of schedule rate of this item.	2.00	Per No.
79	Providing and fixing new Nirali make stainless steel sink of size 60 x 45 x 20 cm including Nirali make waste coupling all connections of G.I. supply and flexible 40mm dia waste pipe upto trap chromium plated 15mm dia bib tap(Seiko make) etc. complete. contractor will be allowed to take away old sink and for which 5% deduction will be made of schedule rate of this item	5.00	Per No

80	Providing and fixing PVC low/high level flushing cistern (Dual flush system) with all fittings as approved by IITB inlet G.I. pipe with stop tap, providing and fixing 32mm or required heavy duty PVC outlet bend pipe from flushing cistern upto the w.c. pan, 15mm dia PVC connection to the tank etc. Make Hindware/ CERA/ Slimline/ Hindustan/ Nycer etc . all complete. as directed.	10.00	Per No.
81	Providing and fixing 10 cm dia chromium plated brass shower rose to 15 mm dia. Supply pipe including necessary G.I. Bend and socket complete. contractor will be allowed to take away old shower if available and for which 5% deduction will be made of schedule rate of this item	12.00	Per No.
82	Providing and fixing 100 to 125mm dia stainless steel nahani trap jali with ring etc. complete.	12.00	per No.
83	Providing and fixing 15mm diameter ,400 gm Bib cock Seiko make, anti-static with guarantee against any manufacturing defect including socket, union nuts etc, complete contractor will be allowed to take away old bib tap if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	12.00	per No.
84	Providing and fixing 15mm diameter 400 gm Stop cock/angle cock Seiko make, anti-static with guarantee against any manufacturing defect including socket, union nuts etc, complete contractor will be allowed to take away old bib tap if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	20.00	per No.
85	Providing and fixing 15mm diameter,400 gm chromium plated 4" pillar tap cock of Seiko make approved IIT brand with deluxe knob for wash hand basin contractor will be allowed to take away old pillar tap if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	12.00	Per No.
86	Providing and fixing 2 in 1 tap of approved make including necessary fitting fixtures etc, for which 5% deduction will be made of schedule rate of this item. Complete as directed by Engineer in charge	10.00	per No.
87	Providing and fixing stainless steel jet spray of approved make including necessary pipe of required length socket/union etc, complete as directed by Engineer in charge. contractor will be allowed to take away old jet spray if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	10.00	per No.
88	Providing and fixing CEON-CHR-347 KNM sink cock of jaquar make including fitting fixture for which 5% deduction will be made of schedule rate of this item, if available. Etc, complete as directed by Engineer in charge	5.00	per No.
89	Providing and fixing new fitting approved by IITB with new screw, removing old broken fitting wherever existing. white Solid plastic seat with lid for EWC for pan	20.00	per No.
90	32mm dia PVC flexible pipe for sink or wash basin up to nahani trap	100.00	per No.
91	½" x 1½' to 2' length PVC connection pipes	24.00	per No.
92	6" C.P. full thread Waste coupling	12.00	per No.
93	4" C.P. Half thread Waste coupling	12.00	per No.

94	Providing and fixing 25 mm dia (n.b) gun metal Ball valve(Float valve) Heavy Duty of Techno make, and fixing in proper position with spurn yarn, adhesive etc. including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. all complete.	12.00	per No.
95	Providing and fixing 20 mm dia (n.b) gun metal heavy Ball valve(Float valve) Heavy Duty of Techno make make, and fixing in proper position with spurn yarn, adhesive including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. etc. all complete.	12.00	per No.
96	Providing and fixing 20 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.	4.00	per No.
97	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.	4.00	per No.
98	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.	4.00	per No.
99	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.	2.00	Per Job
100	Constructing inspection chambers of internal clear dimensions 900mm x 450mm with 230mm thick brick masonry wall in cement mortar 1:6 over abed of 150mm thick cement concrete M-20 (1:1½:3) foundation with 150mm minimum offset beyond masonry wall plastering with cement mortar 1:4, 20mm thick on internal, external and all exposed faces, finished with floating coat of neat cement, including necessary cement concrete M-20 (1:1½:3) for forming benching and channel, providing and fixing C. I. steps weighing not less than 3.50 Kg. fixing top one at 450 mm from top level and remaining steps at 300mm vertical spacing in staggered fashion, including providing and fixing precast R.C.C. frame and cover of suitable size, medium duty, manufactured by Prathibha Industries or as approved by Engineer Incharge and fixing with cement concrete coping M-20 (1:1½ :3) and plastering complete including necessary dewatering, if required etc. for chambers of depth upto 1000mm.	4.00	Per No.
101	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.	32.00	Cum
102	Removal and refixing of old door/window shutters without damaging the hinges/frame and fixing it in position with proper alignment and operation etc complete.	4.00	Per Job

103	Providing and fixing 2 in 1 jaquar wall mixer with provision with 115mm long bend pipe on upper side, connecting legs and wall flanges with all labour charges including removing existing wall mixture and depositing to Estate store etc complete	1.00	Nos
104	Providing and fixing 20mm dia aluminum powder coated heavy duty Draffery curtain rods as per approved by estate office with acrylic side holders and brass chromium plated middle brackets and other required fittings as directed by Engineer Incharge.	50.00	Rmt
105	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 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 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.	250.00	Sqm
106	Providing and fixing in position steel TMT bar reinforcement of various diameters for slabs, beams, columns, chajjas, lintels, pardies, etc. as per by Engineer Incharge including cutting, bending, hooking the bars, cost of welding rod for welding to existing reinforcement and supporting as required complete.	30.00	Kg
107	Removal of alumunium sliding windows of various sizes at any floor at any height including lead and lift, stacking and depositing carefully removed windows at hillside maintenance unit etc. Complete.	10.00	Sqm
108	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	420.00	Sqm
109	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 with the use of step ladder etc, complete as directed.	4125.00	Sqm
110	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.	245.00	Sqm
111	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 / water proofing cement paint/wall paper by scapping, sand papering and preparing the surface smooth, necessary repairs to scratches including step ladder etc complete	4125.00	Sqm

112	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.	100.00	Sqm
113	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.)	150.00	Sqm
114	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)	250.00	Sqm
115	Providing and applying two coats synthetic enamel paint to ceiling fan Asian paint/ or any other IS approved and equivalent product of ICI or Goodlass Nerolac including one coat metal primer (N1) cleaning scrapping , removing , dust,rust as per manufacture specification etc complete with step ladder etc all complete.	5.00	per No.
116	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	100.00	Sqm
117	Providing & fixing ISI approve long swan neck pillar tap jaquar make including necessary fixtures etc.complete as directed	10.00	No
118	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)	140.00	Sqm
119	Providing and fixing machine cut mirror polished green coloured marble slab of required size and about 16mm to 18mm thick of approved quality for boxing of windows, door frame of toilets on cement mortar 1:4 including neat cement float, filling joints, rounding and moulding the edges, curing minor polishing rubbing and cleaning etc complete.	5.00	Sqm
120	Shifting of household material inside the quarter before the commencement of work and shifting back the same after the work is completed by taking due care of residents belonging in all respect.	2.00	per Flat

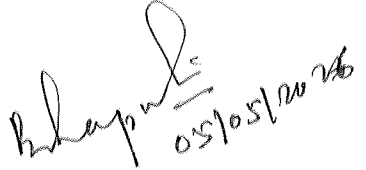
121	Replacing by providing and fixing 5mm thick plain /bajari sheet glass of doors and windows etc. Including putty. Make ModiGuard/Saint-Gobain/Pilkington/Asahi Float etc. complete.	5.00	Per Sqm
122	Providing and fixing hydraulic door closer of approved quality make Godrej/Hyper/Everite and to door shutter including making proper adjustment for smooth operation complete.contractor will be allowed to take away old door closer if available and for which 5% deduction will be made of schedule rate of this item	1.00	Per No
123	Providing and fixing brass eye glass of approved quality, type,make,size and shape etc to door shutter complete.contractor will be allowed to take away old peep glass eye glass if available and for which 5% deduction will be made of schedule rate of this item	10.00	per No.
124	Providing and fixing SS 304 mosquito mesh shutter in existing 2 track aluminium sliding window of any size by providing and fixing new U channel,single track of size 38x25x1.3mm interlocking handle section 40x18x1.5mmmm,top/bottom bearing handle section 40x18x1.5mm,,side section handle single 40x18x1.5mm including p/f 6"star lock with all the necessary fittings like screws,along with anodizing filling the gaps with binding material like silicone sealant etc including removing existing aluminum window and refixing the same after necessary addition and alteration for smooth operation and mosquito proof window including p/f new clear pvc and bearing for existing shutter as directed by Engineer incharge Note: Mode of measurement will be full area of single track window.	5.00	Sqm
125	Providing and fixing SS 304 mosquito mesh shutter in existing 3 track sliding aluminum window by p/f new U channel ,interlocking section handle 40x18x1.5mm,top/bottom handle section 40x18x1.5mm,25x25mm tee including p/f 6"star lock with all the necessary fittings like screws,along with anodizing filling the gaps with binding material like silicone sealant etc including removing existing aluminum window and refixing the same after necessary addition and alteration for smooth operation and p/f new clear pvc and bearing for existing shutter as directed by Engineer incharge Note : Mode of measurement will be the newly provided mosquito net shutter.	5.00	Sqm
126	Providing and fixing SS 304 mosquito mesh shutter in existing 4 track sliding aluminum window by p/f new U channel ,interlocking handle section 50x25x1.5mm,top/bottom bearing handle section 60x25x1.5mm,25x25mm tee including p/f 6"star lock with all the necessary fittings like screws,along with anodizing filling the gaps with binding material like silicone sealant etc including removing existing aluminum window and refixing the same after necessary addition and alteration for smooth operation and p/f new clear pvc and bearing for existing shutter as directed by Engineer incharge Note : Mode of measurement will be the newly provided mosquito net shutter.	5.00	Sqm
127	Providing and fixing European type white glazed earthenware 580mm water closet pan of IITB approved brand with seat and lid with hinges and rubber buffers 10 litres white H.D.P.E. flushing cistern (Dual Flush system) of IITB approved brand with fittings,pipes and stop tap, with fittings and clamps,exposed pipes and cutting and making good walls and floors etc. complete	5.00	per No.

128	Labour charges for modification of the existing window MS grills by means of cutting, fabricating, welding etc and refixing it in position/line/level/plumb including taking care of necessary safety precautions at site including scrapping old paint of grill and applying one coat of metal primer & two coats of Synthetic Enamel Paint of colour shade approved by Engineer In charge etc complete. (Appr. Area 9.24 sqm)	5.00	Per Flat
129	Providing and fixing stainless steel pipe of 1 to 1.5 mtr length for jet spray including removing the old pipe and taking the same away, complete as directed by Engineer in charge. contractor will be allowed to take away old pipe if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	12.00	Per No
130	Providing and fixing brass jet spray nozzle including removing the old one and taking the same away, complete as directed by Engineer in charge. contractor will be allowed to take away old nozzle if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	12.00	Per No
131	Providing and fixing stainless steel niral sink coupling including removing the old one and taking the same away, complete as directed by Engineer in charge. contractor will be allowed to take away old coupling if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete.	6.00	Per No
132	Labour charges for removal and refixing of existing wash basin with new anchor bolts including all necessary fittings and fixtures etc complete	5.00	Per No
133	Supplying, fabricating and fixing in position fully glazed aluminium operable 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).	2.00	Sqm
134	Providing and fixing in position three track aluminium sliding windows using sections of size box pipe 100x25x1.5mm, track 92 mm x 31.75mm x 1.20 mm thick for bottom, sections of size 92 mm x 31.75mm x 1.20 mm thick for sides and top. The shutter comprising of bottom and top member of size 40 mm x 18 mm x 1.29 mm thick , interlocking section of size 40 mm x 18 mm x 1.3 mm thick and handle section of size 40mm x 18 mm x 1.29 mm thick including providing and fixing SS 304 mosquito mesh in the shutter using Uchannel with require fittings such as approved quality minimum two nos. PVC rollers for each shutter, necessary locks, handles, wool foil and other required fittings, etc. complete as directed by Engineer in charge. (Note: All aluminium sections and fitting are 15 micron anodized/ powder coated).	3.00	Sqm

135	<p>Providing and fixing in position four track aluminium sliding windows using sections of size box pipe not less than 125x31x1.5mm, track 125 x 31 x 1.50 mm thick for bottom, sections of size 125 x 31 x 1.50 mm thick for sides and top. The shutter comprising of bottom and top member of size 40 mm x 18 mm x 1.3 mm thick , interlocking section of size 40 mm x 18 mm x 1.3 mm thick and handle section of size 40mm x 18 mm x 1.3 mm thick including providing and fixing SS 304 mosquito mesh in the shutter using Uchannel with require fittings such as approved quality minimum two nos.PVC rollers for each shutter, necessary locks, handles, wool foil and other required fittings, etc. complete as directed by Engineer in charge.(Note: All aluminium sections and fitting are 15 micron anodized/ powder coated).</p>	4.00	Sqm
136	<p>Providing and fixing solid core flush door in single leaf 45 to 50 mm thick as approved by Engineer Incharge all necessary beads, moulding and lipping, and finishing lipping/beading brass oxidised fixtures and fastenings chromium plated handles, on both sides and finishing with 2 coats of existing colour/shade SEP over a coat of wood primer ISI make Duraboard/Kitply/Merino Ply etc. complete (without frame). contractor will be allowed to take away old shutter and for which 5% deduction will be made of schedule rate of this item.</p>	4.00	Sqm
137	<p>Providing and Fixing Aluminium powder coated handles up to 4" for Cascade windows (Right / left as per site requirement) with necessary fittings and fixtures etc all complete as directed by Engineer In-charge.</p>	12.00	Per No
138	<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>	30.00	Sqm

139	<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. Contractor to submit re-counsillation statement along with challans for work done.</p>	20.00	Sqm
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- 1) Note : This schedule of work is given for reference purpose only. Contractors are requested to quote your rates online in financial bid.
- 2) If you will engage labourer 20 or more any day, you have to get labour licence as per contract Regulation & Abolition Act 1970 Rule 1971, and also, you have to keep all such record for inspection to the Principal Employer. If you will engage labour up to 10 Nos. per day, you have to file returns after completion of work as per Building & Construction Act to the Office of Regional Labour Commissioner (Central), Sion, Mumbai.
- 3) This work is to be executed as per the the clauses mentioned in the tender document signed by you. In addition to the existing safety clause of the tender document a penalty of Rs.5,000/- per case will be recovered from the bills of the particular works, in case any such safety violations are noticed.
- 4) 01% amount will be deducted from the bills for safety related measures which will be reimburse along with the final bill.
- 5) Taxes as per government notification time to time.
- 6) Contractor must pay GST Taxes to concern authority within 30 days time limit after receipt of payment from IIT Bombay & said record must be submitted to IIT Bombay Accounts Section, otherwise action will be taken as deemed fit.
- 7) If any malpractices / fraud / negligent professional behaviour or any discrepancy / inconsistency / disparity / deviation / disagreement / dissimilarity / mismatch noticed, their contract will be terminated by issuing one month notice by following legal procedure and will be blacklisted and informed to all Government Authorities and Organisations.


 Superintending Engineer (I/C)
