



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**ESTATE OFFICE**  
**NOTICE INVITING TENDER**

Telephone No. 022 2576-4995,022-2159-6922 email id [drestate@iitb.ac.in](mailto:drestate@iitb.ac.in)

IIT Bombay invites signed Technical Bid & Financial Bid for the following work from the contractors having similar experience in Central Government Departments / State Government Departments / Central or State Autonomous Bodies / Central or State Public Sector Undertakings / in reputed Private Companies. The detail of work is given below:

Sr. No.	Name of Work	Estimated Cost (In Rs.)	EMD (Rs.)	Mode of Tender	Duration of contract
1	Term contract for repairs to 'C' Type residential vacant /occupied quarters at Central area. <b>EO/A/CENTRAL/WKS-08/26-27</b>	Rs 49,62,209/- Incl.18% GST	Rs.99,000/-	<b>Percentage rate offline mode</b>	<b>06 months</b>

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](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 of submission of technical and financial bids, in 2 separate envelopes is on 13.05.2026 from 09:15 a.m to 11:15 a.m. in the tender box at 1st floor, Conference room, Estate Office. **The date of opening the technical Bid will be 13.05.2026 at 11:30 a.m and the date of opening of financial bid is on 20.05.2026 (Tentative)**

Interested contractors/agencies are requested to submit Technical bid and Financial bid in the Tender Box of the Estate Office. 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) 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, otherwise tender will be rejected.

3) P. F. registration certificate.

*Shi. Kulkarni*  
*Joseph Ad.*  
*2024*

- 4) P. F. challans of last 12 months.
- 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. OR Contractors' 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. 99,000/- in the name of "The Registrar, IIT Bombay" in the Technical Bid Envelope.
- 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 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.
- 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 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.
- 17) Index Sheet

**Terms & Conditions :**

**The documents listed below from Sr. No. 1 to 17 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 & Fair 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. Chhapra*  
27/04/2026  
**Superintending Engineer (I/C)**  
*On 22/04/26*      *22/4*

**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.

\_\_\_\_\_

\_\_\_\_\_

## 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.	
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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.	
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16	Annexure 'A'	
17		
18		

**Signature & stamp of the Contractor**

**TO BE SUBMITTED SEPARATELY IN OTHER ENVELOPE ALONG WITH  
FINANCIAL BID**

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

File No. : EO/A/CENTRAL/WKS-08/26-27

Name of Work : Term contract to repairs to 'C' type residential vacant/ occupied quarters at Central area.

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.

*R. K. Singh*  
27/04/2026

Superintending Engineer (I/C)

*K. S. Arora*  
22/4

Signature of Contractor  
Name & Address in full

## WORKS UNDERTAKING

EO/A/CENTRAL/WKS-08/26-27

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

Sub : Term contract for repairs to 'C' type residential vacant / occupied quarters at Central 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/CENTRAL/WKS-08/26-27

ESTATE OFFICE

Name of work :- Term Contract for repairs to 'C' type residential vacant / occupied quarters at Central area.

SCHEDULE OF WORK

Sr. No.	Description of work	Qty.	Rate (In ₹)	Unit	Amount (In ₹)
<b>1) Repair work</b>					
1.01	Carefully removing internal or external plaster in patches or any length and at any height without damaging structure or brickwork in the vicinity including scaffolding/ stepladder by using electric cutting tools including cutting a groove first to demarcate exact area of damage taken place and removing with chisel & hammer including stacking the debris with in 50 meter, cleaning the site etc. complete. including using stepladder / working platform for internal plaster wherever required covering the furniture, floor, windows and partitions with plastic sheets Note : a) No extra payment shall be made for extra thickness removed. b) The area in vertical plane area shall be measured. (Note : For external work scaffolding will be paid in respective item)	50.00	51.74	Sqm	2,587.00
1.02	Removing the old cement concrete or any type of tiles from flooring manually at any floor including bedding levelling the surface, cleaning the site including sorting our serviceable tiles and lowering to ground level the debris and stacking it upto a distance of 50 meters from building (as directed by Engineer Incharge)	50.00	69.49	Sqm	3,474.50
1.03	Removing the any type of tiles manually from wall/ dado without damaging brick wall or any adjacent structure surface including removing plaster, levelling the vertical surface, cleaning the site including downloading the debris & stacking the debris upto 50 meters from building (as directed by Engineer Incharge)	50.00	70.00	sqm	3,500.00
1.04	Chipping of unsound/weak external or internal concrete of any thickness material from slabs, beams, columns etc. with manual Chisel 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, including working platform / stepladder / Scaffolding all complete as per direction of Engineer-In-Charge (Note : For external work scaffolding will be paid in respective item)	100.00	100.00	Sqm	10,000.00
1.05	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, including working platform / stepladder / Scaffolding all complete as per direction of Engineer-In-Charge. Note-The actual consumption of chemical shall be measured for payment on liter basis . Challans of authorized dealer will be verified (Note : For external work scaffolding will be paid in respective item)	50.00	864.00	L	43,200.00
1.06	Providing and applying an effective bond coat of Epoxy bonding agent manufactured by M/s. Krishna conchem, Dr. Fixit , Roff , Chembond or M.C. Bouchmey and hardner in the proportion of as per manufacture instruction (Base hardner) by using brush in multiples of coat as required to accommodate the whole thickness of PMM wherever required including stepladder/ working platform wherever required on the surface of old concrete/required concrete. Note- The actual consumption of Epoxy bonding coat shall be measured for payment on weight basis . Challans of authorized dealer will be verified (Note : For external work scaffolding will be paid in respective item)	50.00	915.00	Kg	45,750.00

1.07	Providing and Placing in position Readymix Polymer mortar manufactured by M/s.Krishna Conchem, Dr.Fixit, Rolf or M.C. Bouchmey, Chembond by adding water in the proportion of 1:0.14( Polymer mortar:water) at any floor over the prepared RCC surfaces in layers as directed (thickness of each layer shall not exceed 10 to 15mm ) including mixing the polymer mortar with water using forced action mixer including stepladder/ working platform wherever required mild curing will be done with water for 3 days etc complete.( payment will be paid for the actual quantity of polymer mortar PX used on weight basis.Challans of authorized dealer will be verified) (Note : For external work scaffolding wil be paid in respective item)	500.00	47.00	Kg	23,500.00
1.08	Providing and applying an effective bond coat of Polymer (SBR) approved by ITB and cement in the proportion of 1:1 by using brush in multiples coats as required to accommodate the whole thickness of polymer modified mortar wherever required including stepladder/ working platform wherever required on the surface of old concrete / repaired concrete Polymer (SBR) of approved manufacturer should have the following properties: - Suspended solid particles should not be less than 40% - Specific gravity should not be more than 1.01 - PH should not be less than 8.5 Note: The actual consumption of polymer shall be measured for payment on weight basis. Challans of authorized dealer will be verified. (Note : For external work scaffolding wil be paid in respective item)	30.00	351.00	Kg	10,530.00
1.09	Dismantling R.C.C. work manually/ mechanically including breaking concrete by chiselling, wedging etc., cutting the reinforcement, lowering down debris, stacking the serviceable materials and stacking the debris upto a distance of 50 metres or spreading as directed.	2.00	3361.89	Cum	6,723.78
1.10	Pulling down burnt brickmasonry (in cement mortar) with plaster including sorting out serviceable bricks lowering down at Ground level and stacking the same and debris separately up to a distance of 50 metres beyond building etc. complete.	2.00	1950.35	Cum	3,900.70
1.11	Providing sand face plaster externally to concrete stone or brick surface at any height using approved screened sand including preparing the base, watering and applying base coat of 15 to 20mm thick in cement mortar 1:4 using water proofing compound at the rate of 1 kilogram per cement bag and curing the same for not less than two days and making the surface of base coat rough to receive the sand faced treatment 8 to 10mm thick in cement mortar 1:4 and finishing the surface by taking out grains and curing for 14 days etc. Complete.(Note : For external work scaffolding will be paid in respective item)	20.00	623.00	Sqm	12,460.00
1.12	Providing second class burnt brick masonry with conventional / I.S. Type bricks in cement mortar 1:6 in superstructure at any floor and any height including striking joints, racking out joints, watering wherever required etc. complete .(Note : For external work scaffolding will be paid in respective item)	2.00	8620.40	Cum	17,240.80
1.13	Providing uncoursed rubble masonry of trap stones in cement mortar 1:6 in foundation and plinth of inner wall including bailing out water by pumping with suitable pumps, striking joints on unexposed faces and watering complete, including providing header stones @ 1 header per sqm. to the full thickness of wall, providing weep holes, with 100mm dia A. C. pipes if required in walls etc. Complete	2.00	6921.40	Cum	13,842.80
1.14	Providing and fixing 18 mm thick gang saw cut, mirror polished granite , premoulded and prepolished, machine cut for kitchen platforms, vanity counters, doors and windows cladding , sills, shelf, facias and similar locations at any floor of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 fine sand) or in neat cement as required, joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. a) area of slab upto 0.5 m2	10.00	5124.84	Sqm	51,248.40

1.15	Providing and fixing 18 mm thick gang saw cut, mirror polished granite , pre-moulded and prepolished, machine cut for kitchen platforms, vanity counters, doors and windows cladding , sills, shelf, facias and similar locations at any floor of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 fine sand) or in neat cement as required, joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.  b) area of slab over 0.5 m2	10.00	4862.42	Sqm	48,624.20
1.16	Providing and laying nonskid ceramic tiles at any floor of Johnson & Johnson /Nitco/ Kajaria/ Orient Bell/ Somani for flooring approved by IITB required size upto 300mm x 300mm quality, brand and shade as available in market on cement mortar 1:4 bedding using white cement pigments finished to levels slope or plumb as required including cutting of tiles. Curing, acid washing etc. all complete.	30.00	1038.08	sqm	31,142.40
1.17	Providing and fixing 1st quality ceramic glazed wall tiles not less than 300 mm x 200 mm conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, including 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	30.00	1200.34	sqm	36,010.20
1.18	Providing and laying in situ plain cement concrete M-20 of trap metal for foundation and bedding including bailing out water manually, wherever required , formwork, compacting and curing, as directed.	5.00	7896.10	Cum	39,480.50
1.19	Disposing debris, loose stones, boulders, concrete pieces broken and dry leaves etc. collected and stacked as directed including loading in trucks, transporting out of IIT Campus including obtaining all approval of BMC competent authorities for disposing off on to their approved location. The debris are to be removed from site within 48 hours from stacking (30% voids will be deducted from actual stack measurement/ truck measurement for debris, loose stones, boulders etc.).	20.00	783.00	Cum	15,660.00
1.20	Dismantling plain cement concrete work at any height & any floor including breaking concrete by chiselling, wedging etc., lowering down debris, stacking the serviceable materials and stacking the debris upto a distance of 50 metres from building or spreading as directed.	1.00	2304.45	Cum	2,304.45
1.21	Providing second class burnt brick masonry at any height & any floor 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 25 mm X 1.6 mm at every third course properly bent and bonded at ends, scaffolding , racking out joints and watering etc. Complete.	5.00	1063.88	Sqm	5,319.40
1.22	Providing and fixing Kadappa stone slab for kitchen platform/cladding/tank platform of 25 to 30 mm thick in cement mortar 1:4 including providing and fixing border patti on front edge, filling joints, curing, cleaning etc. Complete.	5.00	865.00	sqm	4,325.00
1.23	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	200.00	1470.62	Sq.m	2,94,124.00

1.24	P/L vitrified tiles for flooring of size not less than 600x600mm (thickness to be specified by the manufacturer) of approved shade and pattern ,with required finish (mirror / Mat ) and decorative type of approved make as available in market <b>Fixing with cement based high polymer modified quick set tile adhesive</b> like fevimate(water based) conforming to IS: 15477, using 5kg adhesive per sqm of tile area, in average 5mm thickness. 'white cement pigments finished to levels slope or plumb as required including cutting of tiles. Curing, acid washing etc. all complete as directed. ( Floor tiles basic cost up to Rs. 70 per sft.)	150.00	1378.93	Sq.m	2,06,839.50
1.25	Providing and laying vitrified tiles for skirting / dado of approved shade and pattern with required finish and quality laid on a plaster surface with neat cement, filling joints, curing and clearing etc. complete as directed	20.00	1536.51	Sq.m	30,730.20
1.26	Excavation for foundation in earth, soil of all types, sand, gravel and soft mueum including removing the excavated materials upto a distance of 50 meters beyond the building area and lift upto 1.50 meters, stacking and spreading as directed including dewatering unless provided elsewhere, preparing the bed for the foundation and necessary back filling, ramming, watering complete excluding shoring and strutting.	5.00	168.04	Cum	840.20
1.27	Providing dry trap/ rubble stone soling 150mm to 200 cm thick including hand packing and compacting etc complete.	2.00	1887.00	cum	3,774.00
1.28	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.	2.00	855.00	Cum	1,710.00
1.29	Mirror polishing on marble work/stone work wher ever required to give high gloss finish complete.	5.00	479.68	Sq.m	2,398.40
1.30	Hand polishing to dado, skirting including cleaning, washing etc. complete as directed.	5.00	206.00	Sq.m	1,030.00
1.31	Drilling straight and inclined holes upto 300mm depth and upto 20mm dia in concrete / masonry using electrically operated drilling machine and fixing nipple for grouting, conducting water test all complete etc. as directed	10.00	35.00	Nos	350.00
1.32	Grouting existing RCC / brickwork structure as per following operations including sealing leak paths with lead wool, removing nipple, plugging the hole with neat cement paste by ram packing, cleaning etc. complete. 1) Add Sunplex powder 1.00 kg in one bag of cement of 50 kg with adequate water. 2) Using mechanical means of pressure grouting with the above mix. The pressure shall be 5-10 psi. 3) The grouting to be done into the cracks of ceiling , walls , columns, & beam if necessary. 4) After through grouting sealing the holes with cement slurry. (Note : For external work scaffolding will be paid in respective item)	20.00	34.00	Kg	680.00
1.33	Providing and sealing hairline / minor cracks in plaster by Paste formed out of polymer (S.B.R.) and cement in the proportion of (1:1 by volume) & adding extra cement for workable hand filling mix, cleaning and wetting the surface, curing and including cutting, demarcating grooves at any height with electrically operated cutter machine between sound and unsound plaster, cracks on external wall, separation cracks. (Note : For external work scaffolding will be paid in respective item)	10.00	98.00	Rmt	980.00
1.34	Silicone sealants around window frames / window frame joints and drill holes for water outlet when the rain water on the glass fall into the channel and overflows (wherever required) including double scaffolding etc. Complete.	5.00	71.00	Rmt	355.00

1.35	<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 applying making tape on both side of groove, cleaning, finishing to match the plaster in vicinity, disposing of debris anywhere in ITB campus, cleaning as directed 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> <p>(Note : For external work scaffolding will be paid in respective item)</p>	5.00	177.00	Rmt	885.00
1.36	<p>Grouting in any RCC structure with low viscosity Monomor manufactured by M/s. CICO, SIKKA, MC Bouchmey, Sunanda Chemicals, Roffee etc. or any other approved brand epoxy based product of similar properties, as per manufacture's specification by providing suitable arrangement for grouting at pressure 2 to 3 kg / sqm. for all lift and leads. The grouting is to be done after cement grouting is completed etc. as directed.</p>	10.00	990.00	Kg	9,900.00
1.37	<p>Providing and erecting steel tubular H Frame scaffolding with bracing to all height all around the building as directed by engineer in charge before commencement of work for multipurpose use including working platform wherever equired, stiffened for all types of work and removing the same after completion of all external work requiring double scaffolding. (payments will be made once irrespective of duration / till completion of all external activity)</p>	10.00	146.00	Sqm	1,460.00
1.38	<p>Providing and laying white/colour veined marble slabs 18mm thick in one piece stone for claddings,platform,treads and risers of steps and stair cases with rounded nosing and grooves for the treads laid on bed/ plaster of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing , polishing and cleaning complete.</p>	5.00	2221.66	Sq.m	11,108.30
1.39	<p>Providing temporary steel supports such as tubular steel props 50mm dia, as required for supporting system till the repaired work of the beam, column, slab, chajja, etc. work completed in all respects as directed and when required in any floor of any height inside and outside of the building and removing the supporting system as directed without damaging the structure etc. all complete as directed by Engineer In-charge.</p>	5.00	92.00	Nos	460.00
1.40	<p>Dismantling existing kitchen platform top and support carefully and lowering down the debris at ground level and stacking up to 50 meaters beyond the building area for tacking out the same all complete as directed. ( size approximately 3.5mt X 0.75 mt )</p>	1.00	2104.00	Job	2,104.00
1.41	<p>Providing &amp; levelling the undulation/ sagging of floor with cement mortar 1:4 upto 30 thk to make proper base for floor tiling including levelling, curing, and cleaning etc. complete at any floor</p>	2.00	161.00	Sqm	322.00
1.42	<p>Providing and laying super fluid micro concrete of approved manufacturer (Dr. Fixit, Ultratech, Chembond etc.) at any floor after reinforcement treatment coat including mixing with 10mm to 5mm size quartz aggregate in ratio of 1 part to 0.75 part of quartz aggregate by weight providing marine plywood formwork in line and level,sealing the joints/ gaps with POP &amp; cleaning ,curing etc .complete. The compressive strength of super fluid micro concrete should not be less than 20N/mm2. (reinforcement treatment coat shall be paid under respective items). (Consumption of weight of super fluid micro concrete powder shall be measured for payment ; Tax Invoice of authorized dealer will be verified) etc. Complete. (Note : For external work scaffolding will be paid in respective item)</p>	500.00	88.00	kg	44,000.00

1.43	Providing internal cement plaster 12mm thick in a single coat in Cement mortar 1:4 without neeru finish to concrete or brick surface in all positions at any floor and at any height including stepladder/platform and curing complete.	50.00	328.54	Sq.m	16,427.00
1.44	Providing internal cement plaster 20mm thick in Single coat in cement mortar 1:4 without neeru finish to concrete or brick surface in all positions at any floor and at any height including stepladder/platform curing complete.	50.00	446.22	Sqm	22,311.00
1.45	Providing and fixing in position tor steel bar having grade Fe-500 or more for reinforcement of various diameters for R.C.C. footings, foundations, slabs, beams, columns, canopies, staircases, chajjas, lintels, pardies, coping, fins, dowel bars with sleeve, tie bar, any other required work etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required completed as directed.	50.00	102.10	Kg	5,105.00
1.46	Providing and laying in position ready-mixed or machine batched and machine mixed design mix M-25 (1:1:2) grade cement concrete (with minimum cement content 330Kg/Cum) for all work above plinth level upto any floor level for reinforced cement concrete work, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge including compacting, roughening the surface if special finish is to be provided, casting cubes and testing etc. completed as directed.	7.00	9334.62	Cum	65,342.34
1.47	Providing and laying at any floor nonskid / mat finish ceramic tiles Johnson & Johnson /Nitco/ Kajaria/ Orient Bell/ somani for flooring approved by IITB required size 400mm x 400mm and above size upto 600x600mm quality, brand and shade as available in market on cement mortar 1:4 bedding using white cement pigments finished to levels slope or plumb as required including cutting of tiles. Curing, acid washing etc. all complete.	25.00	1052.00	Sqm	26,300.00
1.48	Providing and laying cement concrete flooring 40mm thick with M-20 cement concrete laid to proper line level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size, laid diagonally / square, etc., finishing smooth (with extra cement) in any colour as directed, and curing complete.	10.00	581.45	sqm	5,814.50
<b>Total Amount of Rs. (1)</b>					<b>11,86,174.57</b>
<b>2) Extenal/Internal Painting work</b>					
2.01	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1000.00	23.81	Sq.m	23,810.00
2.02	Providing and applying white cement based Birla make wall care putty with uniform thickness upto 1.5mm over the existing internal cement plaster in proper line / level including preparing the wall surface for the application of wall care putty etc. including scaffolding all complete as directed.	50.00	147.73	Sqm	7,386.50
2.03	Providing and applying one coat of seal cement primer over the prepared surface of walls / ceiling, including stepladder / scaffolding and cleaning the surface as directed.	1000.00	14.00	Sq.m	14,000.00
2.04	Distemping with 1st quality acrylic distemper (ready mixed) of one or more coats having VOC (Volatile Organic Compound ) content less than 50 gram/ litre, of approved brand and manufacturer including applying additional coats wherever required to achieve even shade and colour	300.00	59.35	Sqm	17,805.00

2.05	Wall painting of two coats with acrylic emulsion paint , having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.	500.00	130.12	Sq.m	65,060.00
2.06	Wall painting of one coats with acrylic emulsion paint , having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.	300.00	87.10	Sq.m	26,130.00
2.07	Providing and applying two coats of synthetic enamel paint of IITB approved brand (Asian, Berger, ICI, Jenson & Nicholson, Goodlass Nerolac) & desired shade to old new wood work, steel grill work with the use of step ladder/ scaffolding if necessary, cleaning and preparing surface by solvent, degreasing and derusting by manul scrapping, filling holes with lambi / palti leavelling the surface cleaning etc. Complete.	200.00	97.32	Sqm	19,464.00
2.08	Providing and applying zink priming coat over steel and other metal surfaces including preparing of the surface by thoroughly cleaning oil, grease, dirt and other foreign matter with wire brushing, fine fire steel wool, and sand paper, scaffolding/stepladder etc. Complete.	100.00	63.81	Sqm	6,381.00
2.09	Applying priming coats with primer of approved brand and manufacture, having low VOC Volatile Organic Compound ) content, With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	100.00	66.60	Sqm	6,660.00
2.10	Providing and applying two coat of synthetic enamel paint of IITB approved brand (Asian, Berger, ICI, Jenson & Nicholson, Goodlass Nerolac) and shade to ceiling fans with the use of step ladder including scrapping cleaning etc. Complete.	15.00	90.00	Nos	1,350.00
2.11	Providing and applying one coat of acrylic primer and two coats of pure Acrylic exterior paint of IITB approved manufacturer as per manufacturer's specification on old/new plastered surface/ stone work surface at any height & any floor , including cleaning the surface thoroughly with coir brush, watering the surface etc.,levelling the undulation if any with external wall care putty, covering with plastic sheets all complete as directed Engineer incharge.	200.00	152.04	Sqm	30,408.00
2.12	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 ASTMD 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)	25.00	351.00	sqm	8,775.00
<b>Total Amount of Rs. (2)</b>					<b>2,27,229.50</b>

3) Waterproofing work					
3.01	Removing the existing loose damaged brick bat coba waterproofing treatment by manually / mechanical means from the top of the terrace /w.c/bath at any floor or sunk surface upto any thickness without making any damages to the roof slab with the use od sharp chisels,levelling and cleaning the roof surface for providing new specialised waterproofing treatment without causing dust nuisance stacking the debris upto 50m distance from building as directed.	10.00	1183.00	Cum	11,830.00
3.02	Providing waterproof plaster in w. c. bath, 20mm thick for dado at any floor 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.	10.00	584.15	Sqm	5,841.50
3.03	Providing waterproofing in W.C. and bath including brickbat coba in all position at any floor including all lead lifts wherever required including providing and laying 12mm bedding in cement mortar 1:3 on concrete slab & sides of sunken portion with waterproofing compound @ 1kg/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 kg/bag of cement grouting and finishing the top layer with 20mm thick bedding in cm mortar 1:3 with waterproofing compound 1 kg/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years guarantee on requisite stamp paper etc. Complete.	10.00	6169.00	Cum	61,690.00
3.04	Providing waterproof bedding 25 mm thick for flooring of bath and W.C. at any floor. In cement mortar 1:3 using 1 kg of waterproofing compound of approved make and manufacturer per bag of cement including leveling curing etc. complete.	10.00	2050.00	Sqm	20,500.00
3.05	Providing and laying water proofing cement concrete flooring to terrace to average 50mm thick with 1:1.5:3 cement concrete laid to proper level and slope using silt free clear river sand including compaction, filling joints, adding recommended waterproofing admixtures @ 2% by weight of cement, marking lines to give appearances of tiles of 30cm x 30cm or other approved size laid diagonally / square, finishing with extra cement in any colour as directed, testing the roof by ponding with water for 14 days, including all lead and lift wherever required etc. complete.	10.00	618.00	Sq.m	6,180.00
3.06	Providing and applying three coats of Dr. Fixit Roof seat 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.	20.00	475.00	sqm	9,500.00
<b>Total Amount of Rs. (3)</b>					<b>1,15,541.50</b>

4) Plumbing and sanitary work					
4.01	Taking out C.I. / PVC nahani trap with connecting pieces from floor carefully and taking away the same out of IIT campus etc. Complete.	5.00	211.00	Nos	1,055.00
4.02	Providing and fixing white urinal parryware or equivalent make including necessary fittings such as L shaped hooks, spreader and flushing system and bottle trap of Jaquar, Click Clack Waste coupling of jaquar, connection pipe upto trap or pipe etc. complete as directed.	5.00	7693.00	No	38,465.00
4.03	Providing and fixing 1/2" dia CP push tap of Jaquar with wall flange with stainless steel pipe upto urinal pot including necessary fittings and fixtures etc. complete as directed.	5.00	2810.00	No	14,050.00
4.04	Providing and fixing ISI 1729/2002 grade 75mm dia. cast iron waste water pipes (Neco or equ.) with lugs necessary fittings such as bends, tees, single junctions, double junctions, slotted vent, offsets on walls or in the ground including filling joints with cement mortar 1:2 proportion and two coats of anti corrosive paint including fixing the pipe on walls by means of nails driven through lugs in wooden holders / battens including removing the existing pipe if necessary and conveying and stacking taking away the same out of IIT campus , necessary complete or as directed. (Recovery of the removed damaged pipe will be done @ Rs. 20 per Rmt)	10.00	1241.00	Rmt	12,410.00
4.05	Providing and fixing ISI 1729/2002 grade 100 mm dia. cast iron soil pipes (Neco or equ.) with necessary fittings such as bends, tees, single junctions, double junctions, slotted vent, offsets on walls or in the ground including filling joints with cement mortar 1:2 and two coats of anti corrosive paint including fixing the pipe on walls by means of nails driven through lugs in wooden holders / battens including removing the existing pipe if necessary and conveying and stacking taking away the same out of IIT campus complete or as directed. (Recovery of the damaged pipe will be done @ Rs. 25 per Rmt)	10.00	1419.00	Rmt	14,190.00
4.06	Providing and laying 15 mm diameter I.S.I. make TATA / Jindal/ Zenith heavy type C class galvanized iron pipes having weight as per IS specification to walls, ceilings, floors etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps/ GI clamp etc. including necessary drilling in holes in walls / slabs etc, connecting the lines with old / new pipe lines / fittings / fixtures etc as required and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of oil painting etc. or as directed Complete. (scaffolding will be paid in separate item if required)	20.00	346.86	Rmt	6,937.20
4.07	Providing and laying 20mm diameter I.S.I. make TATA / Jindal/ Zenith heavy type C class galvanized iron pipes having weight as per IS specification to walls, ceilings, floors etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps/ GI clamp etc. including necessary drilling in holes in walls / slabs etc, connecting the lines with old / new pipe lines / fittings / fixtures etc as required and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of oil painting etc. or as directed Complete. (scaffolding will be paid in separate item if required)	20.00	413.98	Rmt	8,279.60
4.08	Providing and laying 25mm diameter I.S.I. make TATA / Jindal/ Zenith heavy type C class galvanized iron pipes having weight as per IS specification to walls, ceilings, floors etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps/ GI clamp etc. including necessary drilling in holes in walls / slabs etc, connecting the lines with old / new pipe lines / fittings / fixtures etc as required and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of oil painting etc. or as directed Complete. (scaffolding will be paid in separate item if required)	20.00	522.28	Rmt	10,445.60

4.09	Providing and laying 40mm diameter I.S.I. make TATA / Jindal/ Zenith heavy type C class galvanized iron pipes having weight as per IS specification to walls, ceilings, floors etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps/ GI clamp etc. including necessary drilling in holes in walls / slabs etc, connecting the lines with old / new pipe lines / fittings / fixtures etc as required and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of oil painting etc. or as directed Complete. (scaffolding will be paid in separate item if required)	20.00	768.61	Rmt	15,372.20
4.10	Providing and laying 50mm diameter I.S.I. make TATA / Jindal/ Zenith heavy type C class galvanized iron pipes having weight as per IS specification to walls, ceilings, floors etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps/ GI clamp etc. including necessary drilling in holes in walls / slabs etc, connecting the lines with old / new pipe lines / fittings / fixtures etc as required and remaking good the demolished portion to restore the same in original condition neatly and applying Zinc primer and two coats of oil painting etc. or as directed Complete. (scaffolding will be paid in separate item if required)	10.00	992.45	Rmt	9,924.50
4.11	Providing and laying 40mm diameter I.S.I make heavy type C Class galvanized iron pipes of TATA / Jindal / Zenith make having weight as per IS specification in trenches etc. with elbows, tees, reducers, enlargers, plugs, etc. including connecting the lines with old / new pipe lines / fittings / fixtures etc as required and filling trench with excavated soil and applying metal primer and two coats of oil painting including removing the existing pipe if necessary and as directed etc. Complete.	10.00	584.15	Rmt	5,841.50
4.12	Providing and laying 50mm diameter I.S.I make heavy type C Class galvanized iron pipes of TATA / Jindal / Zenith make having weight as per IS specification in trenches etc. with elbows, tees, reducers, enlargers, plugs, etc. including connecting the lines with old / new pipe lines / fittings / fixtures etc as required and filling trench with excavated soil and applying metal primer and two coats of oil painting including removing the existing pipe if necessary and as directed etc. Complete.	10.00	721.51	Rmt	7,215.10
4.13	Providing and fixing ISI approved heavy type 15 mm dia brass stop tap(sciko, techno make) including socket, union nut etc. Complete. Including removing the existing damaged tap. (5% cost will be deducted for taking away the removed material outside IIT campus)	5.00	334.41	each	1,672.05
4.14	Providing and fixing screw down 20mm gun metal Gate Valve of techno or uttam make bearing I.S.I. Mark including socket, union nut etc. including removing the old damaged gate valve & depositing Complete. (5% cost will be deducted for taking away the removed material outside IIT campus)	5.00	511.16	each	2,555.80
4.15	Providing and fixing screw down 25mm gun metal Gate Valve of techno or uttam make bearing I.S.I. Mark including socket, union nut etc. including removing the old damaged gate valve & depositing Complete. (5% cost will be deducted for taking away the removed material outside IIT campus)	5.00	589.21	each	2,946.05
4.16	Providing and fixing new sanitary fittings with new fixtures , removing old broken fittings wherever existing. ¼" Flexible pipe – 3 feet long	20.00	121.00	No	2,420.00
4.17	Providing and fixing new sanitary fittings with new fixtures , removing old broken fittings wherever existing. ½" PVC connection 2 feet long	20.00	196.00	No	3,920.00
4.18	Providing and fixing new sanitary fittings with new fixtures , removing old broken fittings wherever existing. ½" PVC connection 1½ feet long	20.00	173.00	nos	3,460.00
4.19	Providing and fixing new sanitary fittings with new fixtures , removing old broken fittings wherever existing. S.S. Grating 4" dia	5.00	138.00	No	690.00

4.20	Providing and fixing new sanitary fittings with new fixtures , removing old broken fittings wherever existing. S.S. Grating 5"dia	5.00	150.00	nos	750.00
4.21	Providing and fixing new sanitary fittings with new fixtures , removing old broken fittings wherever existing. 1 1/4" Nirali Sink coupling set	5.00	973.00	Nos	4,865.00
4.22	Providing and fixing 40 mm dia Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes removing old damaged pipe, jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Exposed on wall, (scaffolding will be paid in separate item if required) (5% cost will be deducted for taking away the removed material outside IIT campus)	10.00	665.47	Rmt	6,654.70
4.23	Providing and fixing 25 mm dia Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes removing old damaged pipe, jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Exposed on wall, (scaffolding will be paid in separate item if required) (5% cost will be deducted for taking away the removed material outside IIT campus)	10.00	380.14	Rmt	3,801.40
4.24	Providing and fixing 20 mm dia Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes removing old damaged pipe, jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Exposed on wall, (scaffolding will be paid in separate item if required) (5% cost will be deducted for taking away the removed material outside IIT campus)	10.00	317.14	Rmt	3,171.40
4.25	Providing and fixing 15 mm dia I.S.I. approved heavy type C class galvanized iron pipes TATA / Jindal / Zenith make in <b>concealed</b> plumbing having weight as per IS specification complete with G.I. fittings and clamps, including painting with anti corrosive bitumastic paint , cutting chases in walls for fixing concealed pipe and making good the wall by means of leveling with cement plaster and testing of joints complete as per direction of Engineer in Charge.	20.00	549.50	Rmt	10,990.00
4.26	Providing & fixing 40mm dia. PVC pipe for outlet of wash basin , sink etc. (heavy duty) with all fittings & fixtures making connection to old & new pipe line etc. complete as directed by Engineer.	10.00	223.00	Rmt	2,230.00
4.27	Providing and fixing white glazed earthenware wash hand basin of approved brand (Hindware/Cera/ parryware) of 55cm x 40cm size including one cold water pillar tap of jaquar , brackets, rubber plugs and brass chain, stop tap of jaquar and necessary pipe connection including polyethylene waste water pipe and trap	1.00	5091.00	No	5,091.00
4.28	Providing and fixing coloured glazed earthenware wash hand basin of approved brand (Hindware/Cera/ parryware) of 55cm x 40cm size including one cold water pillar tap of jaquar , brackets, rubber plugs and brass chain, stop tap of jaquar and necessary pipe connection including polyethylene waste water pipe and trap	1.00	5219.00	No	5,219.00
4.29	Providing and fixing white glazed earthenware wash hand basin of approved brand (Hindware/Cera/ parryware) of 45 x 30 cm size including one cold water pillar tap of jaquar , brackets, rubber plugs and brass chain, stop tap of jaquar and necessary pipe connection including polyethylene waste water pipe and trap	1.00	4864.00	No	4,864.00

4.30	Providing and fixing coloured glazed earthenware wash hand basin of approved brand (Hindware/Cera/ parryware) of 45 x 30 cm size including one cold water pillar tap of jaquar , brackets, rubber plugs and brass chain, stop tap of jaquar and necessary pipe connection including polyethylene waste water pipe and trap	1.00	4986.00	No	4,986.00
4.31	Providing and fixing 100 mm dia chromium plated brass shower rose of Jaquar brand to 15 mm dia. Supply pipe including necessary SS Bend and socket complete.	5.00	1768.00	Nos	8,840.00
4.32	Providing and fixing white solid plastic seat (Hindware/Cera/ parryware) with lid for european type W.C. pan complete with require fittings and fixtures etc. and including removing existing damaged plastic seat complete as directed.	10.00	648.33	each	6,483.30
4.33	Providing and fixing good quality 32mm Nelson flush valve to water closet all complete as directed including removing the old damaged /unserviceable flush valve and taking out IITB campus. (5% cost will be deducted from Item of work for material taken outside campus)	2.00	4313.00	nos	8,626.00
4.34	Providing and fixing Low / high level 10 liters capacity PVC flushing cistern of parryware / hindware / cera make with all fittings as inlet G.I. pipe with stop tap, brass chromium plated waste coupling and providing and fixing 32mm or required heavy duty PVC outlet bend pipe from flushing cistern upto the pan, 12mm dia PVC connection to the tank etc. all complete. as directed. (5% cost will be deducted from Item of work for material taken outside campus)	5.00	1127.16	each	5,635.80
4.35	Providing and fixing white color Low level 3/6 liters capacity PVC Dual flushing cistern parryware / hindware / cera make with all fittings as approved by IITB inlet G.I. pipe with stop tap, brass chromium plated waste coupling and providing and fixing 32mm or required heavy duty PVC outlet bend pipe from flushing cistern upto the pan, 12mm dia PVC connection to the tank etc. all complete. as directed. (5% cost will be deducted from Item of work for material taken outside campus)	5.00	4421.00	No	22,105.00
4.36	providing and fixing Stainless Steel sink of size <b>615mm x 460mm x 255mm</b> (Approximate internal size of sink) of approved make and design( Nirali Make) including all connections of G.I. Supply and PVC waste outlet pipe and coupling , making good damaged surface etc. complete.	2.00	14551.00	Nos	29,102.00
4.37	Providing and fixing stainless steel kitchen sink nirali make with drain board of size 510x915mm bowl depth 200mm approved brand (nirali or equlant) as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting, and making good the walls wherever required	1.00	10939.00	Nos.	10,939.00
4.38	Removing the old damaged / worn out plastic water storage tank of any size and capacity from the roof of the building carefully with out damaging any structural members of the building by using chainpulley arrangement and depositing in Estate stores etc. Complete. (5% cost will be deducted for old damaged tank from item of work)	5000.00	1.00	Ltr	5,000.00
4.39	Providing and fixing in position best quality salt glazed stone ware gully trap with 150mm x 150mm square inlet and 100 mm n.b. outlet conforming to IS 651 including embedding the trap in M-20 (1:1.5:3) cement concrete, construction of brick masonry chamber 300mm x 300mm internal in 230mm thick brick masonry, plastering, finishing with neat cement floating coat, providing and fixing C. I. cover and frame weighing not less than 7 kg. etc including removing the old damaged gully trap, connecting all old and new inlets and out let pipes including running lines, jointing etc. all complete as directed.	2.00	2588.41	each	5,176.82
4.40	Providing and laying temporary loop connection to main water supply inlet and outlet of water tank with 'C' class pipe 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.  For C Type Building upto (G+6)	2.00	12557.00	Per Job	25,114.00

4.41	Providing and laying temporary loop connection to main water supply inlet and outlet of water tank using CPVC pipes of any dia. With all fittings like elbows, tees, reducers, plugs, clamps etc. including other connections and commissioning the water supply line and remaking to original connections after repair / cleaning of tank etc. complete.  For C type bldgs in Central area	2.00	5180.00	Per Job	10,360.00
4.42	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.	10.00	721.00	Rmt	7,210.00
4.43	Providing and fixing P.V.C. rain water pipes 'A' Type 110mm 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.	10.00	357.00	Rmt	3,570.00
4.44	Arresting leakages from PVC / Plastic storage tank by making necessary welding to cracked portion with all tools and plants etc. completed as directed.	2.00	3476.00	per job	6,952.00
4.45	Providing and fixing 110mm(ID) dia. ISI approved HDPE pipes manufactured by ARHAM Engineering/ BERLIA /NOCIL / PIL with wall thickness of 6 mm to 8mm for taking sewage waste water with all required fittings such as bend, elbows etc. with proper line and gradient connecting all joints with fusion butt welding by using suitable welding machine or hot plate, testing the line & joint as per manufacturer specification etc. all complete as directed by Engineer In-charge.	10.00	1039.00	Per Rmt	10,390.00
4.46	Providing and fixing 160mm(ID)dia ISI approved HDPE pipes manufactured by ARHAM Engineering/ BERLIA /NOCIL / PIL with wall thickness of 6 mm to 8mm for taking sewage waste water with all required fittings such as bend, elbows etc. with proper line and gradient connecting all joints with fusion butt welding by using suitable welding machine or hot plate, testing the line & joint as per manufacturer specification etc. all complete as directed by Engineer In-charge.	10.00	1345.00	Per Rmt	13,450.00
4.47	Providing and fixing health faucet jet spray set with SS tube upto 1.5m length of approved Jaquar make including necessary socket/ union etc. complete as directed.	10.00	2025.00	No	20,250.00
4.48	Providing and fixing SS towel ring upto 9 inch dia round flange of approved jaquar make etc. Complete.	2.00	1530.00	No	3,060.00
4.49	P/F ½" dia CP Bib Cock / Angle Cock of jaquar ( continental series ) including necessary fitting and fixtures etc. complete as directed	5.00	1240.00	No	6,200.00
4.50	Providing & fixing ISI approve heavy type Angle Cock (Cavier make Rienza series) including extension Pipe, C.P Double nippal etc. complete.	5.00	1443.00	No	7,215.00
4.51	Providing and fixing ISI approve two way Wall mixture (cavier / Jaquar make) system with provision for only overhead shower complete with 115mm long bend pipe including fixtures etc. Complete.	1.00	5234.00	No	5,234.00

4.52	Providing and fixing ISI approve three in one Wall mixture (Jaquar make) system with provision for both hand shower and overhead shower complete with 115cm long bend pipe, including fixtures (Excluding hand shower)etc. Complete.	1.00	7464.00	No	7,464.00
4.53	Providing & fixing jaquar make telephonic hand shower 80mm round with 1.5m long jaquar make flexible chrome tube which connected to three way mixer including fixtures etc. Complete.	1.00	2929.00	No	2,929.00
4.54	Providing & fixing Cera make Platform top white wash hand basin of size 602mm x 433mm including vertical pillar cock, Stop Cock, of approved jaquar / Cavier brand), SS Waste Coupling, Waste Pipe, Connection Pipe, etc complete as directed.	1.00	11453.00	No	11,453.00
4.55	Providing hoisting and fixing in position MCGM approved plastic storage water tank on roof of buildings at any height with all fitting, fixtures viz 1" PTMT ball cock, extension nipple, 1" dia coupling and plug for washout and 1" dia coupling and bend for overflow connecting the tank (in let and out let) with the existing water line, providing and fixing overflow pipe with mosquito proof brass coupling & mosquitoproof CI cover with locking arrangements approved by MCGM, using required fitting / fixtures including hoisting till any height using manual/ mechanical means without damaging the structure and making good the damaged structure if damaged during hoisting at contractors risk and cost all complete as directed by Estate office.	5000.00	14.00	Ltr	70,000.00
4.56	Providing & fixing granite counter wash basin of size upto 750 X 500 for counter including coloured oval / round shape wash basin of size 22" x 16" with Jaquar make Pillar tap, CP bottle trap, connector, angle cock complete including kaddpa supports, moulding, facia patti all complete as directed by Engineer incharge.	2.00	15548.00	No	31,096.00
4.57	Providing and fixing hindware make white glazed earthenware pedstal wash hand basin of size 56cm x 43cm , pedstal height 68cm including one cold water contentail series 450mm long swan neck tap of jaquar , brackets, rubber plugs and brass chain, stop tap of jaquar and necessary pipe connection including jaquar make bottle trap etc. Complete as directed	1.00	10089.00	No	10,089.00
4.58	Providing & fixing hindware / cera make Platform top wash basin of size 630 mm x 500 mm including ,one cold water contentail series 450mm long swan neck tap of jaquar,Stop Cock, Waste Coupling, jaquar make bottle trap, Connection Pipe, etc complete or as directed.	1.00	8567.00	No.	8,567.00
4.59	Providing and fixing European type wall hung white glazed earthenware water closet pan as per existing size of Parryware, Hindware, Cera make with P.V.C seat and lid with chromium plated brass hinges and rubber buffers including PVC heavy type flush pipe with fittings and clamps, cutting and making good walls and floors etc. complete as directed.	1.00	11541.00	No.	11,541.00
4.60	Providing & fixing ISI approve long swan neck pillar tap jaquar make including necessary fixtures etc.complete as directed	5.00	1879.00	No	9,395.00
4.61	Providing & fixing ISI approve SS bottle trap below wash basin including necessary fixtures etc.complete as directed	5.00	1071.00	nos	5,355.00
4.62	Providing & fixing ISI approve heavy type Kitchen sink cock with swinging casted spout (wall mounted) jaquar make including necessary fixtures etc.complete as directed	5.00	2163.00	No	10,815.00
4.63	Providing & fixing ISI approve heavy type two way bib cock jaquar make including necessary fixtures etc.complete as directed	5.00	1358.00	No	6,790.00
4.64	Remvoing & taking out the wash basin with connecting pieces from floor/wall carefully without disturbing base floor/wall and taking away the same out of IIT campus etc. Complete.	5.00	154.00	Nos	770.00

4.65	Remvoing & taking out the European WC with connecting pieces from floor/wall carefully without disturbing base floor/wall and taking away the same out of IIT campus etc. Complete.	5.00	234.00	No	1,170.00
4.66	Remvoing & taking out the Flush tank with connecting pieces from floor/wall carefully without disturbing base floor/wall and taking away the same out of IIT campus etc. Complete. (5% cost will be deducted for taking away the removed material outside IIT campus)	5.00	120.00	No	600.00
4.67	Removing the existing toilet fittings while the other cement related activities are in progress and refixing the same after the work gets completed. 1)Wash basin	5.00	553.00	Nos	2,765.00
4.68	Removing the existing mirror & glsss shelf with screws while the other cement related activities are in progress and refixing the same with new coach screw after the work gets completed.	5.00	346.00	Nos	1,730.00
4.69	Providing and fixing Orrisa type white glazed earthenware 580mm x 440 mm water closet pan of approved make and brand (Cera, Hindware or equivalent) including trap, cast iron soil and vent pipes upto the outside face of the wall including 100mm. diameter cast iron plug bend, cement concrete bedding, 10 litres capacity H.D.P.E. approved flushing cistern with fittings, inlet pipe with brass stop tap(Cico), brackets, 32mm. diameter galvanised iron heavy type flush pipe with fittings and clamps, painting to the exposed pipes and cutting and making good the walls and floors etc. complete. (excluding waterproof brick bat coba)	5.00	6406.55	each	32,032.75
4.70	Providing and fixing European type white glazed earthenware 580mm water closet pan of approved make and brand (Cera, Hindware or equivalent) with PVC seat and lid with chromium plated brass hinges and rubber buffers including cast iron soil and vent pipes upto the outside face of wall and 100mm. diameter cast iron plug bend, 10 litres approved low level white PVC flushing cistern with all fittings, pipes and stop tap, brackets for fixing the low level flushing cistern, 32mm dia galvanised iron / PVC heavy type flush pipe with fittings and clamps, 20mm dia. PVC galvanised iron overflow pipe with mosquito proof coupling, and exposed pipes and cutting and making good walls and floors etc. complete as directed.	5.00	6168.13	each	30,840.65
4.71	Providing & fixing Techno / Sicko bib tap ( Min weight 400gm) with new fittings & new screws, removing old broken fittings & taps wherever existing. (5% cost will be deducted for taking away the removed material outside IIT campus)	10.00	811.00	nos	8,110.00
4.72	Providing & fixing Jaquar make corner glass shelf set with new fittings & new screws.	5.00	1021.00	per no	5,105.00
4.73	Providing & fixing Jaguar make sink cock with new fittings & new screws, removing old broken sink cock wherever existing. (5% cost will be deducted for taking away the removed material outside IIT campus)	5.00	1984.00	per no	9,920.00
4.74	Providing & fixing Jaguar make SS soap dish holder with new fittings & new screws, removing old broken seap dish holder wherever existing. (5% cost will be deducted for taking away the removed material outside IIT campus)	5.00	1137.00	per no	5,685.00
4.75	Providing and fixing 100 mm PVC nahani trap with S.S grating, etc. complete.	5.00	211.00	Nos	1,055.00
4.76	Providing and fixing 100 mm CI nahani trap with S.S grating, etc. complete.	5.00	681.00	Nos	3,405.00
4.77	Providing and fixing 100mm dia stainless steel nahani trap jali with ring etc. Complete	10.00	93.00	Nos	930.00

4.78	Providing and fixing 10cm dia cast iron nahani trap with fixed SS nahani trap jali, cast iron plug bend and piece of cast iron pipe upto plug bend including removing old the nahani trap including 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.	10.00	755.00	Nos	7,550.00
<b>Total Amount of Rs. (4)</b>					<b>7,32,547.42</b>
<b>5) Wooden joinery / Aluminium / Roofing work</b>					
5.01	Removing door and windows of any size and any height type with frame, mild steel / wrought iron grill work and stacking the same and depositing to Estate stores if required. (scaffolding will be paid in separate item if required) (Recovery of wood scrap will be done @ Rs. 25 per kg, aluminium scrap will be done @ Rs. 120 per kg and structural steel will be done @ Rs. 20 per kg from Item of work against actual weight if material taken outside campus)	5.00	347.62	each	1,738.10
5.02	Removing flush door and glazed windows shutters carefully without damaging wooden frame of any size and stacking the same and depositing to Estate stores if required. (Recovery of wood scrap will be done @ Rs. 25 per kg, aluminium scrap will be done @ Rs. 120 per kg and structural steel will be done @ Rs. 20 per kg from Item of work against actual weight if material taken outside campus)	5.00	135.85	each	679.25
5.03	Modification of existing door shutter by removing the door shutter and cutting the door shutter from bottom side up to 1/2" to 1 1/2" thick and refixing the same shutter after rectification with new beading patti, painting work with new brass hinges, screws etc. Complete.	10.00	406.22	each	4,062.20
5.04	Providing and fixing M.S. grills of required pattern in frames of windows etc. fixed to openings /wooden frames with rawl plugs screws etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	50.00	225.64	kg	11,282.00
5.05	Providing and fabricating structural steel works in rolled sections like joints, channels, angles, tees etc. as per details designs & approved pattern including fixing in position with connecting plates, braces and welding, riveting, bolting as necessary including zinc primer coat & two coats of synthetic enamel paint etc. (scaffolding will be paid in separate item if required)	50.00	111.09	Kg	5,554.50
5.06	Providing and fixing 35mm FRP door manufactured by M/s. Advance Company including brass hinges, both side brass handles, brass aldrops, tower bolt, brass tadi patti etc. complete at any location in residential building as directed.	10.00	3765.00	Sqm	37,650.00
5.07	Providing and fixing 3" Anchor Fastener wherever necessary etc. Complete.	5.00	115.00	nos	575.00
5.08	Supplying fabricating and fixing in position fully glazed aluminium openable window using aluminium section 42 x 30 x 1.5mm (0.526/rmt) size aluminium single border outer frame of window shutter, 42 x 37 x 1.5mm size(0.724kg/rmt), aluminium Z section for window shutter, 28 x 14.5 x 1.5mm( 0.286kg/rmt) size, aluminium clip for window shutter 45 x 45 x 1.5mm(0.762kg/rmt)( size, Z aluminium center patti for mullion & intermediate section, 37mm x 37mm (0.820kg/rmt) aluminium angles 2mm thick, 5mm thick plain or frosted glasses with rubber gasket, 3 Nos. S.S. Hinges 75mm size (heavy) on each window shutter, aluminium tower bolt 100mm size 1 Nos on each leaf, aluminium stay 200mm to 250mm long 1 No per leaf, aluminium handle 1 Nos per leaf, provision for fixing AC with teak wood members inside box, (if required).etc. Complete. (all aluminium section should be 15 micron anodized or as directed and of Jindal make.	5.00	8258.00	Sq.m	41,290.00
5.09	Providing and fixing aluminium louvered ventilators using 50mm x 25mm x 16 gauge (not less than 0.593 kg/mtr) aluminium box frame anodized to 15 microns for outer frame and intermediate vertical members as directed including 5mm thick plain or frosted glass (Make Modi Guard/Saint-Gobain) 125mm wide for louvers at proper inclination including P/F glass on adjustable aluminium louvered of approved size and making provision of fixing exhaust fan etc. all complete (Aluminium section anodized to 15 microns , Jindal make or as directed.	5.00	6157.00	Sqm	30,785.00

5.10	Providing and fixing in position fixed glazing using 63mm x 38mm x 1.65mm (0.942 kg/rmt) 15 micron / powder coated anodized aluminium partition section for frame with screws and providing 5mm thick clear plain glass (Make Modi Guard/Saint-Gobain) fixed to the above frame using glazing clip with rubber gaskets, filling all gaps with appropriate fillers etc. all complete.(Jindal Make)	5.00	5047.00	sqm	25,235.00
5.11	Providing and fixing in position two track aluminium sliding windows using track section of size 61mm x45mm x1.3mm(1.055kg/rmt) thick for bottom, section of size 61mmx31mmx1.3mm(0.659kg/rmt)for side & top .The shutter should be of bearing bottom of size 40mm x18mmx1.25mm (0.417kg/rmt)thick, top member of size 40mm x 18mm x 1.20mm(0.475kg/rmt) thick , Interlocking section of size 43mm x 27mm x 1.30mm (0.558kg/rmt)thick , handles section of size 43mm x 18mm x 1.30mm(0.424kg/rmt) thick including providing and fixing <b>SS304 grade flyproof mesh</b> in the shutter using aluminium U clip, approved quality minimum two nos. PVC rollers for each shutter,necessary locks,handles,PVC liningand other required fitting s etc. complete as directed by engineer incharge. (all aluminium section should be 15 micron anodized/ section of Jindal make or as directed.)	5.00	5926.00	Sq.m	29,630.00
5.12	Providing and fixing in position two track aluminium sliding windows using <b>rectangular box section</b> of size 63mmx38mmx2.00mm (1.054kg/mtr) for outer frame, bottom section of size 61 mm x 45 mm x 1.3 mm (1.055kg/mtr) thick for bottom, sections of size 61 mm x 31mm x 1.3 mm (0.659kg/mtr) thick for sides and top. The shutter should be of bearing bottom of size 40 mm x18 mm x 1.25 mm (0.417kg/mtr) thick , top member of size 40 mm x 18 mm x 1.20 mm (0.475kg/mtr) thick, Interlocking section size of 43 mm x 27 mm x 1.30 mm (0.558kg/mtr) thick and handle section of size 43mm x 18 mm x 1.30 mm (0.424kg/mtr) thick including providing and fixing <b>S.S. 304 Jali flyproof mesh</b> in the shutter using u channel approved quality minimum two nos.PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings,shutter width should not be more than 0.6m etc. complete as directed by Engineer in charge.( Note: All aluminium sections and fitting are 15 micron anodized Jindal make or as directed).	5.00	6902.00	Sq.m	34,510.00
5.13	Providing and fixing in position two track aluminium sliding windows using <b>drain bottom section or equivalent</b> of size 61 mm x 45 mm x 1.3 mm(1.055kg/rmt) thick for bottom, sections of size 61 mm x 31mm x 1.3 mm (0.659kg/rmt)thick for sides and top. The shutter should be of bearing bottom of size 40 mm x 18 mm x 1.25mm(0.417kg/rmt) thick , top member of size 40 mm x 18 mm x 1.20 mm (0.475kg/rmt)thick, Interlocking section size of 43 mm x 27 mm x 1.30 mm(0.558kg/rmt) thick and handle section of size 43mm x 18 mm x 1.30 mm(0.424kg/rmt) thick including providing and fixing <b>5mm thk. glass (plain or frosted) (Make Modi Guard/Saint-Gobain)</b> in the shutter using rubber gasket, 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.( Note: All aluminium sections and fitting are 15 micron anodized Jindal make or as directed).	5.00	5830.00	Sq.m	29,150.00
5.14	Providing & fixing in position extruded modular aluminium section two track sliding window mounted on <b>rectangular frame of size 63mm x 38mm x 2.00mm thick</b> (1.054 kg/Rmt) made up of two track drain bottom section of size 61mm x 45mm x 1.3mm thick (1.055 kg/Rmt) and top and sides sections of size 61mm x 31mm x 1.3mm thick (0.659 kg/Rmt) The shutter should be of bearing bottom of size 40mm x 18mm x 1.25 mm (0.417 kg/Rmt) top member of size 40mm x 18mm x 1.20mm thick (0.475 kg/Rmt) Interlocking section size of 43mm x 27mm x 1.30mm thick (0.558 kg/Rmt) and handle sectionof size 43mm x 18mm x 1.30 mm thick (0.424kg/Rmt),selected quality <b>5mm thick clear glass (plain or frosted) (Make Modi Guard/Saint-Gobain)</b> to be fixed in shutter with neoprene gasket with approved quality PVC rollers, necessary locks, handles PVC lining and wooden encasement wherever necessary etc. Complete. (All aluminium sections and fitting should be 15 micron anodized and Jindal make or as directed).	5.00	7591.00	sqm	37,955.00

5.15	Providing and fixing in position three track aluminium sliding windows using track sections of size 92 mm x 31mm x 1.3 mm (0.933kg/mtr) thick for bottom, sides and top. The shutter comprising of bottom and top member of size 40 mm x18 mm x 1.25 mm (0.417kg/mtr) thick , interlocking section of size 40 mm x 18 mm x 1.10 mm (0.469kg/mtr) thick and handle section of size 40mm x 18 mm x 1.25 mm (0.417kg/mtr) thick including providing and fixing <b>S.S 304 grade flyproof mesh</b> in the shutter using aluminium U clip, approved quality minimum two nos.PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, provision for fixing A.C. units (if required) etc. complete as directed by Engineer in charge.( Note: All aluminium sections and fitting are 15 micron anodized and of Jindal make)	5.00	6357.00	Sq.m	31,785.00
5.16	Providing and fixing in position three track aluminium sliding windows using <b>rectangular box section</b> of size 100mmx40mmx1.30mm (0.976kg/mtr) for outer frame, drain bottom section of size 92 mm x 45 mm x 1.05 mm (1.659kg/mtr) thick for bottom, sections of size 92 mm x 31mm x 1.3 mm (0.933kg/mtr) thick for sides and top. The shutter comprising of bottom and top member of size 40 mm x18 mm x 1.25 mm (0.417kg/mtr) thick , interlocking section of size 40 mm x 18 mm x 1.10 mm (0.469kg/mtr) thick and handle section of size 40mm x 18 mm x 1.25 mm (0.417kg/mtr) thick including providing and fixing <b>S.S. 304 Jali flyproof mesh</b> in the shutter using u channel approved quality minimum two nos PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, shutter width should not be more than 0.6m etc. complete as directed by Engineer in charge.( Note: All aluminium sections and fitting are 15 micron anodized and of Jindal make)	5.00	7341.00	Sq.m	36,705.00
5.17	Providing & fixing in position extruded modular aluminium section three track sliding window made up of three track drain bottom section of size 92mm x 45mm x 1.05mm thick (1.659 kg/Rmt) three track and top and side sections of size 92mm x31mm x 1.30mm thick (0.933 kg/Rmt) The shutter comprising of bottom and top member of size 40mm x 18mm x 1.25mm thick (0.417 kg/Rmt) interlocking section of size 40mm x18mm x 1.10mm thick (0.469 kg/Rmt)handles section of size of 40mm x 18mm x 1.25mm thick (0.417 kg/Rmt) with <b>5mm thick glass (plain or frosted) (Make Modi Guard/Saint-Gobain)</b> fixed in shutter with approved quality neoprene, gasket, P.V.C lining etc. Complete. ( excluding frame.( Note: All aluminium sections and fitting are 15 micron anodized and Jindal make)	5.00	6974.00	Sq.m	34,870.00
5.18	Providing & fixing in position extruded modular aluminium section three track sliding window made up of rectangular box section of size 100mmx40mmx1.30mm (0.976kg/mtr) for outer frame, three track drain bottom section of size 92mm x 45mm x 1.05mm thick (1.659 kg/Rmt) three track and top and side sections of size 92mm x31mm x 1.30mm thick (0.933 kg/Rmt) The shutter comprising of bottom and top member of size 40mm x 18mm x 1.25mm thick (0.417 kg/Rmt) interlocking section of size 40mm x18mm x 1.10mm thick (0.469 kg/Rmt)handles section of size of 40mm x 18mm x 1.25mm thick (0.417 kg/Rmt) with 5mm thick glass (plain or frosted) (Make Modi Guard/Saint-Gobain) fixed in shutter with approved quality neoprene, gasket, P.V.C lining etc. Complete. ( excluding frame.( Note: All aluminium sections and fitting are 15 micron anodized and Jindal make)	5.00	7427.00	Sq.m	37,135.00
5.19	Providing & fixing in position extruded modular aluminium section three track sliding window mounted on <b>rectangular frame</b> of size 100mm x 40mm x 1.30mm thick (wt 0.933 kg/Rmt) made up of three track drain bottom section of size 92mm x 45mm x 105mm thick (1.659 kg/Rmt) three track top and side of size 92mm x31mm x 1.3mm thick (0.933 kg/Rmt) The shutter comprising of bottom and top member of size 40mm x 18mm x 1.10mm thick (0.469 kg/Rmt)handle sides of size 40mm x18mm x 1.25mm thick (0.417 kg/Rmt)with 2 shutter of 5.0mm thick glass (plain or frosted) fixed in shutter with approved quality neoprene gasket, PVC rollers, locks, handles, PVC lining and one shutter with <b>S.S. 304 Jali flyproof mesh</b> in the shutter using u channel approved quality minimum two nos PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, shutter width should not be more than 0.6m etc. complete as directed wherever necessary etc. Complete. ( Note: All aluminium sections and fitting are 15 micron anodized and of Jindal make)	5.00	7398.00	Sq.m	36,990.00

5.20	Providing & fixing in position extruded modular aluminium section three track sliding window made up of three track drain bottom section or equivalent of size 92mm x 45mm x 105mm thick (1.659 kg/Rmt) three track top and side of size 92mm x31mm x 1.3mm thick (0.933 kg/Rmt) The shutter comprising of bottom and top member of size 40mm x 18mm x 1.10mm thick (0.469 kg/Rmt)handle sides of size 40mm x18mm x 1.25mm thick (0.417 kg/Rmt)with 2 shutter of 5.0mm thick glass (plain or frosted) (Make Modi Guard/Saint-Gobain) fixed in shutter with approved quality neoprene gasket, PVC rollers, locks, handles, PVC lining and one shutter with <b>S.S. 304 Jali flyproof mesh</b> in the shutter using u channel approved quality minimum two nos PVC rollers for each shutter, necessary locks, handles, PVC lining and other required fittings, shutter width should not be more than 0.6m etc. complete as directed wherever necessary etc. Complete. ( Note: All aluminium sections and fitting are 15 micron anodized and of Jindal make)	5.00	6199.00	Sq.m	30,995.00
5.21	Providing and fixing in position aluminium 15 micron anodized openable window with stainless steel flyproof mesh of 304 grade having aluminium powder coated " L" pipe section 38mm x 25mm (0.45kg/rmt) for frame and shutter frame of 38mm x 18mm (0.45kg/m) aluminium section and fixing the stainless steel mesh with U channel with screws including necessary fitting and fixtures such as two numbers stainless hinges, stainless steel handle one number and magnet one number or tower bolt etc. complete as directed. ( All aluminium section of Jindal make)	10.00	3963.00	Sq.m	39,630.00
5.22	Providing and fixing openable shutter made up of aluminium anodized 15 micron handle section 38mm x 18mm( 0.45kg/rmt) or near available sections on top, bottom and sides, P/F 4mm thick hardner sheet of Bekelite of desire shead and pattern, P/F stainless steel hinges 75mmx35mm(2 nos.) for each shutter,Inos. of S.S tower bolt on each shutter,Ino handle(S.S) for each shutter, magnet etc. including fixing the shutter over the L pipe section of 38mmx25mmx1.5mm (45kg/rmt) with screws in line and level,rectification of all damages etc. complete as directed. ( All aluminium section of Jindal make)	10.00	6862.00	Sq.m	68,620.00
5.23	Providing and fixing with anodising or powder coating aluminium section for <b>door frame, windows, partitions</b> and any other require work etc. of required size including fixing with required fittings such as screws and other required fittings including fixing in proper alignment, rectifying all damaged, P/F wood inside frame for fixing hinges (if required) etc. completed as directed.	50.00	541.00	kg	27,050.00
5.24	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality (Godrej make or equivalent) with necessary screws etc. Complete	10.00	809.08	each	8,090.80
5.25	Providing and fixing 18mm thick commercial plywoods for drawer, panelling, shutters, partition and any other work with necessary fittings and fixtures etc. complete as per the directions of Engineer-in-charge .	10.00	861.00	Sq.m	8,610.00
5.26	Providing and fixing 18mm thick marine plywood for drawer, panelling, shutters, partition and any other work with necessary fittings and fixtures etc. complete as per the directions of Engineer-in-charge .	5.00	1347.00	Sq.m	6,735.00
5.27	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete a) Triple strip vertical type	10.00	49.70	each	497.00
5.28	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete b) Double strip (horizontal type)	10.00	37.58	each	375.80
5.29	Providing and fixing 600 x 450mm x 6mm thk 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.	2.00	1522.21	each	3,044.42
5.30	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.	2.00	1025.73	each	2,051.46

5.31	Providing and fixing chromium plated SS towel rod 20 mm dia and 75 cm. in length including all accessories complete.	2.00	718.00	No	1,436.00
5.32	Providing and fixing cement bonded wood particle board (bison panel) of 20mm thick to chajja at any floor, providing suitable hole for fixing nuts and bolts including making suitable groove in walls providing plaster and vatta with proper slope complete as directed. (scaffolding will be paid in separate item if required)	5.00	1467.00	Sqm	7,335.00
5.33	Providing Second class teak wood in wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).	1.00	135327.33	Cum	1,35,327.33
5.34	Shifting all the material inside the flats to any where at the required location (vacant flat) in ITB campus & relocating the same to the original flats as per original arrangement , removing all fitting like Auqa gard, geyser and carpentry work and refixing the same in alternate as well as reallocated accommodation after reallocation including vehicle (tempo/truck) all Complete as directed	2.00	13109.00	per job	26,218.00
5.35	Providing and fixing solid core flush door in single or double leaf 35mm thick of commercial type of exterior grade, approved commercial plywood facing both side without glazing and venetians, all necessary beads, moulding and lipping, 300mm long 2 nos. decorative type S.S handles for each shutters, 8" long stainless steel tower bolt 1 no for each shutter etc. complete (without frame). (fittings will be approved by Engineer in charge before fixing)	5.00	5816.00	Sq.m	29,080.00
5.36	Providing and fixing solid core flush door in single or double leaf 35 mm thick of commercial type of exterior grade, approved commercial plywood facing both side without glazing and venetians, all necessary beads, moulding and lipping, 300mm long 2 nos. decorative type S.S handles for each shutters, 8" long stainless steel tower bolt 1 no for each shutter, 6 lever Godrej mortise lock with triplicate keys and other required fittings etc. complete (without frame). (fittings will be approved by Engineer in charge before fixing)	5.00	6701.00	Sq.m	33,505.00
5.37	Providing and fixing country teakwood 2nd class fully glazed single / double leaf windows / ventilators rectangular in shape adopting section of 70mm x 32mm for styles and rails as per drawing including providing and fixing 5 mm thick plain / bajiri glass (Make Modi Guard/Saint-Gobain) with teakwood beading, fixing the window / ventilator shutters with 75mm size butt hinges (Brass oxidized) 2 Nos. for each shutter, aluminium towerbolt 100mm size one for each shutter, aluminium handle 125mm one for each shutter, hooks & eyes 200mm one for each shutter, applying two coats of synthetic enamel paint of approved brand and shade over a coat of wood primer including removing the existing shutter etc. Complete.	5.00	7618.00	sqm	38,090.00
5.38	Providing and fixing single leaf or double leaf panelled door shutters 35mm thick as per detailed drawings consisting of country cut teak wood styles, top rail, frieze rail of 95mm x 35mm, lock rail of 145mm x 35mm and bottom rail of 245mm x 35mm and insert panels of 12mm thick, <b>marine plywood</b> generally conforming to IS: 710 with heavy duty M.S. pressed butt hinges bright finished of required size with necessary screws, P/F 300mm long heavy duty stianless steel aldrop, other require fittings and fixtures etc. complete.	5.00	5728.00	sqm	28,640.00
5.39	Providing & fixing solid core flush door in single leaf 35mm thick commercial plywood facing both side without glazing and venetians, all necessary beads, moulding and lopping , <b>with 1mm thk laminate on both sides</b> including 6" long 2 nos S.S. handle, 8" long S.S. tower bolt 1nos, 4" long brass hinges (heavy type), 6 lever Godrej mortise lock with triplicate keys and other required fittings etc. complete (without frame)	5.00	8086.00	Sq.m	40,430.00
5.40	Providing and fixing 16mm dia. mild steel round bars at 100mm c/c to windows / ventilators / fanlights, fixing mild steel Flats 40 x 6mm in frame, cutting a recess to fit the flat exactly including drilling the holes to flats to pass the bars through it 25mm inside in wooden frame including providing one central mild steel flat of 40 x 6mm by drilling holes (when bar length exceeds 75cm) etc. Complete.	10.00	114.31	kg	1,143.10

5.41	Providing and laying 6mm thick plain glass fibre sheet of translucent top side tissue material as per IS 12866, resin with U.V stablized isophthalic base , light, transmission approved manufacture and desired shade including laying on surface , cleaning etc. All directed.	5.00	5982.00	Sq.m	29,910.00
5.42	Providing & replacing in position Godrej night latch without damaging door & frame with automatic locking arrangement, triplicate keys etc. complete as directed.	5.00	2791.00	No	13,955.00
5.43	Providing and Replacing 5 mm thick plain/bajri glass (Modi Guard/Saint-Gobain make)of doors and windows etc. including teakwood beading etc. Complete.	5.00	1348.00	sqm	6,740.00
5.44	Providing and fixing fly proof stainless steel mesh of approved quality SS 304 grade to windows, doors and any other location using teak wood or aluminium anodised section of require size with necessary fittings and fixtures etc. complete as directed.	5.00	1511.99	Sq.m	7,559.95
5.45	Making the wooden doors, windows etc. and all the fittings and fixtures in easily operational condition in all type of quarters by providing necessary screws, oiling the fixtures, removing rust etc. from fittings plaining the frames etc. all complete as directed.	10.00	1066.00	Jobs	10,660.00
5.46	Easying the aluminium sliding windows by means of making freely operationable condition including cleaning the tracks, providing and fixing PVC rollers/ bearing (Heavy quality), concealed locks – 02 Nos etc. all required fittings for window of two track or three track etc. all complete as directed.	10.00	1791.00	Per window	17,910.00
5.47	Removing the existing kitchen trolley & refixing existing sliding channels with oiling and greasing, welding existing broken SS round bars. Providing new screws after that refixing to original place including cleaning site etc. Complete	5.00	1119.00	Per job.	5,595.00
5.48	Replacing by providing and fixing 6 mm thick toughen plain glass of doors and windows etc. including removing existing damaged glass neatly without damaged structure etc. Complete.	5.00	2896.00	Sq.m	14,480.00
5.49	Providing and applying French polishing to new wood work including knotting, preparing the surface including step ladder etc. complete as directed.	5.00	422.46	Sqm	2,112.30
5.50	Providing and applying French polishing for required polish on previously polished wood including knotting, preparing the surface, step ladder etc. complete as directed.	5.00	212.81	Sqm	1,064.05
5.51	Providing and fixing colour coated Galvalume profile precoated sheet for roofing and cladding having thickness 0.50mm TCT of Jindal Make with required colour along with necessary accessories like self drilling and tapping screws with weather cap with all leads and lift etc. complete as directed. (scaffolding will be paid in separate item if required)	15.00	957.00	Sq.m	14,355.00
5.52	Providing & fixing hydraulic door closer of approved quality and approved make (ISI Marks) to door shutter including making proper adjustment for smooth operation etc. Complete.	2.00	1228.00	Nos	2,456.00
5.53	P/F 25mm dia aluminum powder coted heavy duty (58.33gram/ft) approved draftery curtain rod with decorative side holders including required fittings and screws (length upto 1.5m) all complete	10.00	365.00	Rmt	3,650.00
5.54	P/F 25mm dia aluminum powder coted heavy duty (58.33gram/ft)approved draftery curtain rod with decorative side holders and middle brackets including required fittings and screws(length beyond 1.5m) all complete	10.00	375.00	Rmt	3,750.00
5.55	P/F Stainless steel SS grade 304, curtain rod 25 mm dia 1.20 mm thick upto 1.5 meter with Stainless steel SS grade 304, brackets ( curtain rod) 25 mm dia 1.20 mm thick including required fittings and screws, all complete.	5.00	547.00	Rmt	2,735.00

5.56	P/F Stainless steel SS grade 304, curtain rod 25 mm dia 1.20 mm thick more than 1.5 meter with Stainless steel SS grade 304, brackets ( curtain rod) 25 mm dia 1.20 mm thick including required fittings and screws, all complete.	5.00	769.00	Rmt	3,845.00
5.57	Providing ,Fabricating and fixing at all floors, locations and heights stainless steel storage / Service Units / kitchen trolleys below existing granite Kitchen Platform upto depth 24 " to 26" as required made with 304 S.S. (Food grade ) Comprising of 19mm square pipes outer frame , sink unit with bottle and bin holders , bottle pull out , utensils and storage unit kit etc. as desired by Engineer incharge and as per approved design consisting of 6mm dia S.S. round bars and 5mm dia distribution S.S. round bars or 1 mm thick perforated S.S. sheet where ever required & fabricated as directed including cost of providing teakwood Frame work , Sliding channel, 18mm waterproof plywood with sunmica facia , handles , screws , nails, cost of materials , transporting , labour, wastage and testing etc complete as directed( weight of the trolley should not be less than 55kg/sqm of elevational area)	5.00	30041.00	Rmt	1,50,205.00
5.58	Providing & fixing in position wall unit, overhead storage, made out of using 18mm thick waterproof plywood sides & shutters,6mm thick waterproof plywood backing, 1 mm thick sunmica for all exposed surfaces , CP teakwood frame work / supports fixing the unit on wall , handles with providing & fixing glass shelf of 12mm thick 1 no at 45 cm including necessary edging, moulding , buffing etc. & locking arrangement , hinges & other hardware & required fitting etc. all complete as directed	5.00	10182.00	Sq.m	50,910.00
5.59	Supplying fabricating & fixing in position fully galzed aluminium single/double leaf <b>double glass window</b> using 15 micron anodized RZ section 46mm x 33mm x 2mm ( 0.38 kg/Rft )for window shutter , 46mm x 33mm x 2mm aluminium RZ single border outer frame , 21mm x 15mm x 2mm ( 0.38 kg/Rft ) aluminium RZ clip , 60mm x 34mm x 2mm ( 0.4 kg/rft )aluminium RZ centre , aluminum angle , 5mm thick plain double glass with jumbo rubber gasket, adjustable hinges 2 nos on each shutter, z handle 2nos, window stay 2 nos, P/F aluminium outer hollow box section of size 50mm x 25mm x 1.5mm (0.18 kg/rft) and fixing the shutter on aluminium outer frame etc. complete as directed(All aluminium section Jindhal make)	2.00	20164.00	Sq.m	40,328.00
5.60	Providing,making and fixing in position 19mm thick marine plywood cabinets (kitply/century make) above/below kitchen platform with using 2" x 1 1/2" finished size teak wood frame properly polished and finished and approved sunmica(Marine/greenlamp) of 1mm on both side, Each shutter shall be provided with 4" stainless steel hinges and 6" stainless steel handles of approved quality. The work shall be executed in all respects as directed by the Engineer-in-Charge, ensuring a neat, durable, and high-quality finish.	5.00	6883.00	Sq.m	34,415.00
5.61	Providing and fixing in position aluminium <b>2 track sliding double glass window</b> in heavy anodized section 15 micron with including frame work of aluminium hollow pipe section 75mm x 25mm size with 14 gauge thick weight of 1.036kg/m , aluminium sliding track of size 66.5x50mm of weight 1.329kg/m with shutter section of size 66x26mm of weight 0.774kg/m including gazing clip of size 38.7x 28.5 mm of weight 0.303kg/m including making holes for draining of water fixing 5mm thick clear double glass shutter with rubber gasket, concealed lock, Meeti make heavy quality bearing including all necessary fittings required for double glass window , providing silicon sealent if required all complete as directed.( all aluminium section will be Jindal make)	5.00	12603.00	sqm	63,015.00

5.62	Providing and fixing in position aluminium <b>2 track sliding double glass window</b> with <b>top and bottom fixed double glass</b> window in heavy anodized section 15 micron with including frame work of aluminium hollow pipe section 75mm x 25mm size with 14 gauge thick weight of 1.036kg/m , aluminium sliding track of size 66.5x50mm of weight 1.329kg/m , shutter section of size 66x26mm of weight 0.774kg/m ,gazing clip of size 38.7x 28.5 mm of weight 0.303kg/m with single groove section of 89x32mm of 2.75 mm thk of weight of 1.933kg/m for fixed glass above and below of sliding window including fixing 5mm thick clear double glass shutter with rubber gasket, concealed lock, Meeti make heavy quality bearing for sliding window including all necessary fittings required for double glass window,providing silicon sealent if required all complete as directed.( all aluminium section will be Jindhal make)	5.00	13884.00	sqm	69,420.00
5.63	Providing and fixing in position aluminium <b>3 track sliding double glass window</b> in heavy anodized section 15 micron with including frame work of aluminium hollow pipe section 100mm x 40mm size with 14 gauge thick of weight 1.469kg/m , aluminium sliding track of size 101.5x50mm of weight 1.798kg/m with shutter section of size 66x26mm of weight 0.774kg/m including gazing clip of size 38.7x 28.5 mm of weight 0.303kg/m including making holes for draining of water fixing 5mm thick clear double glass shutter with rubber gasket, concealed lock, Meeti make heavy quality bearing including all necessary fittings required for double glass window ,providing silicon sealent if required all complete as directed.( all aluminium section will be Jindhal make)	5.00	10555.00	Sq.m	52,775.00
5.64	Providing and fixing in position three track aluminium sliding windows of six shutter using aluminium section of drain bottom of size 116mm x 25mm x 1.35 mm (1.160kg/mtr) thick ,for sides and top section of size 116mm x 25mm x 1.4 mm (1.005kg/mtr) thick . The shutter comprising of bearing bottom section of 60mm x25mm x1.45mm (0.781kg/rmt) and handle aluminium section member of size 50 mm x25mm x 1.5 mm (0.717kg/mtr) thick , interlocking aluminium section with both side interlocking arrangement 44.5mmx25mmx1.06mm(0.637kg/m) and interlocking section with one interlocking arrangement of 45mmx25mmx1.2mm(0.595kg/m) and for central locking providing F section of of section of 40mm x25mm x1.5mm (0.545kg/rmt) including providing and fixing S.S 304 grade flyproof mesh in two shutter using aluminium U clip & 6mm toughen glass in four shutter using rubber gasket,. Heavy type of PVC rollers for each shutter, necessary sliding shutter latch, handles, PVC lining and other required fittings etc. complete as directed by Engineer in charge.( Note: All aluminium sections and fitting are 15 micron anodized & Jindhal make).	8.00	6887.00	Sq.m	55,096.00
5.65	Providing and fixing extra shutter of comprising of bottom and top member of size 40 mm x18 mm x 1.25 mm (0.417kg/mtr) thick , interlocking section of size 40 mm x 18 mm x 1.10 mm (0.469kg/mtr) thick and handle section of size 40mm x 18 mm x 1.25 mm (0.417kg/mtr) thick including providing and fixing <b>S.S 304 grade flyproof mesh</b> in the shutter using aluminium U clip, 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.( Note: All aluminium sections and fitting are 15 micron anodized & Jindhal make).	5.00	2383.00	Sq.m	11,915.00
5.66	Providing and fixing extra shutter of comprising of bottom and top member of size 40 mm x18 mm x 1.25 mm (0.417kg/mtr) thick , interlocking section of size 40 mm x 18 mm x 1.10 mm (0.40kg/mtr) thick and handle section of size 40mm x 18 mm x 1.25 mm (0.417kg/mtr) thick including providing and fixing <b>5 mm thick glass (Plain or frosted)</b> in the shutter using neoprene gasket, 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.( Note: All aluminium sections and fitting are 15 micron anodized & Jindhal make)	5.00	2508.00	Sq.m	12,540.00

5.67	Providing & fixing butt hinges heavy aluminium 100mm in brass with new screws, removing old broken hinges wherever existing.	6.00	212.00	Nos	1,272.00
5.68	Providing & fixing butt hinges heavy aluminium 75mm in brass with new screws, removing old broken hinges wherever existing.	6.00	188.00	Nos	1,128.00
5.69	Providing & fixing 150mm tower bolt in aluminium with new screws, removing old broken tower bolt wherever existing.	5.00	107.00	Nos	535.00
5.70	Providing & fixing 100mm tower bolt in aluminium with new screws, removing old broken tower bolt wherever existing.	5.00	96.00	Nos	480.00
5.71	Providing & fixing buffer stopper with new screws, removing old broken buffer stopper wherever existing.	5.00	145.00	Nos	725.00
5.72	Providing and fixing 300mm long stainless steel heavy duty aldrop with require fittings and fixtures etc. Complete.	5.00	592.00	Nos	2,960.00
5.73	Providing & fixing Jaguar make paper holder with new screws, removing old broken paper holder wherever existing.	2.00	1022.00	Nos	2,044.00
5.74	Providing & fixing Jaguar made towel rack 600mm long with new screws, removing old broken towel rack wherever existing.	2.00	3810.00	No	7,620.00
5.75	Providing & fixing Sliding channel of kitchen trolley upto 24 inch long with new screws, removing old broken rusted kitchen trolley channel.	10.00	684.00	Per pair	6,840.00
5.76	Providing & fixing PVC gasket/ rubber lining with with necessary fitting & fixtures new screws, removing old broken rubber gasket wherever existing.	5.00	86.00	Rmt	430.00
5.77	Providing and fixing brass Eye glass of approved quality, peep hole type,make,size and shape etc to door shutter complete including removing existing damaged. Contractor will be allowed to take away old peep glass eye glass if available	5.00	173.00	No	865.00
5.78	Centering and shuttering including strutting, propping etc. and removal of form for all heights : A) Foundations, footings, bases of columns, coping, raft etc.	15.00	371.24	sqm	5,568.60
5.79	b) Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	7.00	797.58	sqm	5,583.06
5.80	c) Suspended floors, roofs, landings, staircase waste slab, balconies, cantilever chajjas and access platform	7.00	877.81	sqm	6,144.67
5.81	D) Lintels, beams, plinth beams, girders, bressumers and cantilevers	10.00	697.13	sqm	6,971.30
5.82	E) Columns, Pillars, Piers, Abutments, Posts and Struts	10.00	910.04	sqm	9,100.40

5.83	Removing door / windows / cupboard shutter & frame removing shutters & old fittings keeping them aside and taking out the old dilapidated frame out of campus, providing wraughting to shape & fixing C. P. Teakwood frame of same size & design as existing finished size (95mm x 70mm, 70mm x 32mm) applying one coat of coal tar to the backside of members fixing new M.S. Hold fasts 4 Nos. for windows and 6 Nos. for doors with screws fixing the frame in proper position in cement mortar as per original profile on the wall refixing the removed shutters with new brass heavy butt hinges 100mm for doors & 75mm for windows or of same size & number as existing fittings including painting two coats of synthetic enamel paint over a coat of primer on all exposed surfaces of frame rectifying all defects to original specification all complete as directed	1.00	199621.00	Cum	1,99,621.00
<b>Total Amount of Rs. (5)</b>					<b>19,43,769.29</b>
TOTAL AMOUNT OF Rs. (1+2+3+4+5)					42,05,262.28
Say Rs.					<b>42,05,262.00</b>
At Par					
(In words.....%).....% Above					
(In words.....%).....% Below					
Amount Rs.					
CGST 9%					
SGST 9%					
Net Amount Rs.					
Say Rs.					

**Special Condition :**

1. Recovery of scrap material will be done in respective item at the rates mention below -

- Wood scrap – Rs. 25.00/kg
- Aluminium scrap – Rs. 150.00/kg
- MS Steel / Tor steel & structural steel – Rs. 28.00/kg
- Kitchen trolley – Rs. 45.00/kg
- GI / CI Pipe – Rs. 20.00/kg
- Brass taps of all types – Rs. 120.00/kg

2. Existing passenger lifts should not be use for shifting construction materials or debris.

3. Manufacturer & brand list for various items should be supplied as per approved list.

4 . Quantities mentioned in schedule are approx.and those may vary from zero to indefinite as per site requirement

5. Time required for attending each and every complaint or executing the job will be finalised by the Engineer Incharge or his representative at the time of giving the job or handing over the complaint, compensation @Rs.250 per day per complaint / per job will be charged against if delayed for completion of item / job.

(Rupees.....  
.....)

(Rates for all items & net amount of total to be filled with figure and words. If it is not done,it will be assumed as incomplete tender & tender opening committee will reject your offer at the time of opening of tenders/quotations).

Note:

- 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.
- This schedule of work is legal documents of Estate Office, IIT Bombay and directed to enlisted contractors to get the copy of schedule of work to fill the rates and can submit his offer. No changes in schedule of work is allowed i.e. item description , units , quantity, rates, etc. If noticed his offer will be rejected and the contractor will be blacklisted or any other strict action will be initiated against him.
- 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 documents a penalty of Rs.5,000/- (per case) will be recovered from the bills of the particular work, in case any safety violations are noticed.
- Tender will be rejected if white ink applied for correction in the schedule of work.
- Taxes as per government notification time to time.
- 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.
- 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)

Signature of the Contractor  
Name & Address in full