



INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
ESTATE OFFICE, POWAI, MUMBAI, MAHARASHTRA – 400 076
TEL. 022 2576 4995 E-mail : drestate@iitb.ac.in

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

| Sr. No. | Name of Work | Estimated Cost (In Rs.) Incl. 18% GST | EMD (Rs.) | Time Limit | RFX No. |
|---------|--|---------------------------------------|---------------|------------|------------|
| 1. | External and internal repair, painting of K. V. Regional Office building inside IIT Bombay Campus. EO/A/CENTRAL/WKS-146/23-24 | Rs.1,12,81,798/- | Rs.2,25,000/- | 06 Months | 6100001704 |

Intending bidders needs to be register themselves on IIT Bombay portal i.e. <https://portal.iitb.ac.in/vrp/index.jsp> to get User ID and Password. View the open tender on <https://ep.iitb.ac.in/irj/portal> Please visit https://portal.iitb.ac.in/vrp/vrp_srm_docs.jsp for configuration process and user manual. Queries regarding to vendor registration please contact on 022 – 2159 3001(ASC Help-desk) and queries regarding to online Bid submission please contact to +91 82915 56277/6377.

Date and time of submission of tender documents digitally are from 28.03.2024 to 10.04.2024 till 11:15 a.m. Date of opening of **Technical Bid will be 10.04.2024 at 11.30 a.m. and Financial Bid 17.04.2024 (Tentative)**

Interested contractors/agencies are requested to upload Technical bid and Financial bid on the SRM tendering portal of IIT Bombay.

(A) All contractors/agencies should upload technical bid with the following documents on SRM tendering portal, failing to which their tender will be summarily rejected from the tendering process:

- 1) i. Experience of having successfully completed works during the last 7 years ending last day of the month previous to the one in which applications are invited :
Three **similar completed works** costing not less than the amount equal to 40% of estimated cost put to tender,
OR
Two **similar completed works**, costing not less than the amount equal to 60% of the estimated cost put to tender
Or
One **similar completed work** of aggregate cost not less than the amount equal to 80% of the estimated cost.
AND
ii. One completed work of any nature (either part of (i) or a separate one) costing not less than the amount equal to 40% of the estimated cost put to tender with some Central Government Departments / State Government Departments / State or Central Autonomous Bodies / State or Central Public Sector undertakings.
- 2) Detail statement for work completed, work in hand including balance commitment of work should be enclosed for last three year commencing from 1st April and ended with 31st March and contractor should submit his details as per Annexure'A' format with support of xerox copies of work order and work completion certificates, otherwise the bid capacity will not be calculated and his technical bid will be summarily rejected, and no Financial Bid will be opened. (All contractors/agencies are hereby informed that they should upload Technical bid as per format of Annexure "A", changing in format is not allowed).
- 3) Upload a scan copy of the information in respect of **manpower/mandays** for above said work must be given **in undertaking** with official signature and seal/stamp, otherwise tender will be **rejected**.
- 4) Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank from the date of publishing of Tender.
- 5) P. F. registration certificate.
- 6) P. F. challans of last 12months.
- 7) (i) ESIC registration certificate and copies of ESIC challans of last 12months.
OR
(ii) Contractors' all risks insurance (CAR policy) / Medclaim policy.
- 8) PAN card.
- 9) GST registration certificate.
- 10) Income Tax Return for last 03 years i.e. of **2020-21, 2021-22 and 2022-23**.
- 11) List of Equipment's, Machinery, Tools.
- 12) List of Technical Staff with copies of their Degree/diploma certificate.

- 13) Labour Licence obtained during in **03 years**.
- 14) The contractors who were empanelled under Estate Office under (2018-23) list need not have to upload Demand Draft. The contractors other than empanel list that are applying for tender need to upload a scan copy of Demand Draft / Pay Order for Rs.2,25,000/- (EMD amount) drawn in favour of "**The Registrar, IIT Bombay**" on online Tendering Portal.
- 15) Power of Attorney, if any.
- 16) Proof of Constitution: An affidavit in case of Sole Proprietorship, Partnership Deed in case of Partnership Firm, Article of Association in case of Private / Public Limited Companies.

Note:

Those contractors who do not have documents mentioned above from Sr. No. 1 to 16 need not apply as it is mandatory documents to qualify in technical bids.

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

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

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

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

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

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

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

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

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

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

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

M. K. Jaiswal
25/03/2024
Superintending Engineer (IC)

22/3
21/3/24

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/CENTRAL/WKS-146/23-24

Name of Work : External & internal repair, painting of K. V. Regional office building inside IIT Bombay Campus.

Name of the Contractor -----

| Sr. No. | Name of Client | Name of Works | 2020-21 (In Lakhs) | 2021-2022 (In Lakhs) | 2022-2023 (In Lakhs) | 2023-2024 (In Lakhs) | |
|----------------------------|----------------|---------------|-----------------------|-------------------------|-------------------------|-------------------------|---------|
| | | | | | | Completed | Balance |
| | | | - | - | - | - | - |
| | | | - | - | - | - | - |
| Total Amount (In Lakhs) | | | - | - | - | - | - |

Note : Contractor must submit his details as per Annexure 'A' with declaration stating that **he is possessing all the original copies of work orders and experience certificates, it will be produced as and when required to IIT Bombay.** However, if it is found false at later stage, the contractor will be debarred or blacklisted. Whereas, if information is not submitted as per Annexure 'A' format his bid capacity will not be calculated and his tender will be summarily rejected.

M. K. Purohit
26/03/2024

Superintending Engineer (I/C)

K. S. Dik
21/3/24

J. C.
22/3

Signature of Contractor
Name & Address in full

WORK UNDERTAKING

EO/A/CENTRAL/WKS-146/23-24

ESTATE OFFICE

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

Sub : External & internal repair, painting of K. V. Regional office building inside IIT
Bombay Campus.

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. If fails to do so, the tender will be assumed incomplete and hence the same will be rejected.

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

- 1) No. of Unskilled casual labour to be required per day. :
- 2) No. of Skilled casual labour to be required per day. :
-

The Mandays required for completion of work. :

Thanking you,

Yours faithfully,

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

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

POWAI, MUMBAI - 400 076.

EO/A/CENTRAL/WKS-146/23-24

ESTATE OFFICE

Name of work :- External & internal repair, painting of K. V. Regional office building inside IIT Bombay Campus.

SCHEDULE OF WORK

| Sr. No. | Description of work | Qty. | Unit |
|---------|--|---------|------|
| 1 | 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 by using scaffolding , | 10.00 | Rmt |
| 2 | Carefully removing External plaster in patches at height of G+3 bldg, any length without damaging structure brickwork in the vicinity by using electric cutting tools including cutting a groove first to demarcate exact area of damage taken place stacking the debris with in 50 meter, cleaning the site etc. complete. Including bambbo scaffolding, covering the furniture, floor, windows and partitions with plastic sheets while chipping with stepladder. Note:- a) No extra payment shall be made for extra thickness removed. b) Proper tools to be used for removal of concrete and it should be seen by contractor no damage on the other side / near by area will be taken place and if required other portions are to be checked by the contractors with respect to the damage before commencement of the work. c) The area in vertical plane shall be measured. | 1200.00 | sqm |
| 3 | Carefully removing internal plaster in patches at any height , any length without damaging structure brickwork in the vicinity by using electric cutting tools including cutting a groove first to demarcate exact area of damage taken place stacking the debris with in 50 meter, cleaning the site etc. complete. Including scaffolding or stepladder covering the furniture, floor, windows and partitions with plastic sheets while chipping with stepladder. Note:- a) No extra payment shall be made for extra thickness removed. b) Proper tools to be used for removal of concrete and it should be seen by contractor no damage on the other side / near by area will be taken place and if required other portions are to be checked by the contractors with respect to the damage before commencement of the work. c) The area in vertical plane shall be measured. | 50.00 | sqm |

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| 4 | <p>Exposing the existing damaged RCC members like columns, beams, slabs, chajjas, paradi, fins etc in patches or any length and height by using electrical cutting tools and with sharp chisel, hammer manually up to any depth till the corroded reinforcement will be opened allround without damaging brickwork, plaster in the vicinity, including double scaffolding, cleaning, lowering down and stacking the debris with in 50 mete distance from building , cleaning the site etc. complete, including covering the furniture with plastic sheet while exposing concrete wherever required . Note :- Proper tools to be used for removal of concrete.</p> <p>The exposed area shall be measured for the payment of this item.</p> | 500.00 | sqm |
| 5 | <p>Old reinforcement treatment ,providing and applying reinforcement treatment, comprising of following operations.</p> <p>Cleaning the reinforcement from all sides by using wire brush, tools etc. Application of rust converter such as Alkaline base(Rust kill A) as per manufacturers specification, cleaning as directed complete including double scaffolding and stepladder wherever required.Actual consumption of Alkaline base converter shall be measured for payment on weight basis. Challans of authorized dealer will be verified.</p> <p>The chemical to be procured in sealed container & seal to be opened in presence of the IITB representatives.</p> | 50.00 | kg |
| 6 | <p>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 double scaffolding upto any height 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</p> | 200.00 | kg |
| 7 | <p>Providing and applying an effective bond coat of Polymer (SBR) approved by IITB 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 scaffolding wherever required on the surface of old concrete / repaired concrete</p> <p>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.</p> | 300.00 | kg |

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| 8 | <p>Providing and Placing in position Readymix Polymer mortar manufactured by M/s.Krishna Conchem, Dr.Fixit, Roff 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 double scaffolding 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)</p> | 25000.00 | kg |
| 9 | <p>Providing and laying super fluid micro concrete of approved manufacturer at any floor after reinforcement treatment coat including mixing with 10mm to 5mm size quartz aggregate in ratio of 1 part IITB approved brand shrikomp to 0.75 part of quartz aggregate by weight providing marine plywood formwork in line and level,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 ; challans of authorized dealer will be verified)including scaffolding etc. complete.</p> | 2402.00 | kg |
| 10 | <p>Providing and fixing in position T.M.T bar reinforcement at any floor of various diameters for R.C.C. slabs, beams,columns, staircases, chajjas, lintels, parapets, coping, etc. as per detailed designs, drawing and schedules including cutting, bending, hooking the bars, binding with wires or tack welding if necessary and supporting as required and as directed.</p> | 400.00 | kg |
| 11 | <p>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 and bamboo double scaffolding etc. Complete.</p> | 1200.00 | sqm |

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| 12 | 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 scaffolding and curing complete. | 550.00 | sqm |
| 13 | 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 at any height any floor , stone work surface as per manufacturer's specification including cleaning the surface thoroughly with coir brush, watering , scaffolding the surface etc. complete and as directed by this office. (only plain area will be measured) | 2042.77 | sqm |
| 14 | Removing existing waterproofing treatment from the terrace up to the mother slab of any thickness without damages to structure using electrically operated cutting tools, leveling and cleaning the surface for providing new speciliased waterproofing treatment, and stacking the same at a distance of 50mtr from building etc. all complete as directed. | 370.00 | sqm |
| 15 | Providing and laying waterproofing treatment of 120mm av. thickness consisting of 12mm thick layer in cement mortar 1:3 with water proofing compound 2% by weight of cement as base, constructing and laying brick bat coba in cement mortar 1:5 with waterproofing compound at the rate of 2% by weight of cement and having average thickness of 80mm and finishing with 20mm thick cement plaster layer in cement mortar 1:3 with water proofing compound 2% by weight of cement including laying glass fibre cloth of approved quality in top layer including all lead, lifts and laid to proper slope to drain off water entirely including watta at the junction of parapet and work upto a height of 300mm or as directed and including finishing the top layer of water proofing treatment with false marking of 30cm x 30cm or as directed and covering the whole treatment with ten years' guarantee, on requisite stamp paper etc. complete. | 370.00 | sqm |
| 16 | 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. | 9.00 | cum |

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| 17 | 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. | 5.00 | cum |
| 18 | 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 and double scaffolding wherever required etc. complete. | 5.00 | cum |
| 19 | 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 on plaster and vatta, proper slope etc. complete as directed. | 60.00 | sqm |
| 20 | 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 primer coat painting etc. complete. | 1100.00 | kg |
| 21 | Providing and fixing mild steel grill work for window, ventilator at any floor including scaffolding weighing 15 kg per sqm as per drawing or approved pattern for weather shed & open terrace covering including scaffolding, necessary fabrication ,welding and painting with approved steel primer all complete. | 70.00 | sqm |
| 22 | Add for extra weight or deduct for less weight of 15kg/m2 of M/S. Grills for fabricating such as cutting, shaping, riveting, painting with primer etc. mild steel for grill works including welding. | 200.00 | kg |
| 23 | Removing the existing loose damaged brick bat coba waterproofing treatment from the w.c/bath at any floor or sunk surface upto any thickness without making any damages to the slab with the use od sharp chisels,levelling and cleaning the slab surface for providing new specialised waterproofing treatment,lowering down the debris without causing dust nuisance stacking the debris upto 50m distance from building as directed. | 23.00 | cum |

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| 24 | Providing waterproofing in W.C. and bath including brickbat coba in all position at any floor including all lead ,lifts 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 brick bedding in cm mortar 1:3 with waterproofing compound 1 kg/per bag of cemenr and testing the treated portion for 48 hours by pond test and covering ten years guarantee on requisite stamp paper etc. Complete. | 23.00 | cum |
| 25 | 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. | 50.00 | sqm |
| 26 | 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 | sqm |
| 27 | 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) | 9.00 | nos |
| 28 | 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. | 8.00 | nos |

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| 29 | Providing and laying nonskid ceramic tiles at any floor of Johnson & Johnson /Nitco/ Kajaria/ Bell/ Somani for flooring approved by IITB required size from 300mm x 300mm and upto 600mm x 600mm 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. | 60.00 | sqm |
| 30 | 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) | 380.00 | sqm |
| 31 | Providing and fixing coloured ceramic tiles at any floor of size 450mmx300mm of approved make and brand (Johnson & Johnson, Nitco, Khajaria or equivalent) about 8 to 10 mm thick for dado and skirting in required position on neat cement paste including filling joints with neat cement slurry mixed with pigment to match the colour of tiles, curing, rubbing and cleaning etc. complete. | 380.00 | sqm |
| 32 | Removing the old cement concrete or any type of tiles from flooring manually at any floor including 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) | 440.00 | sqm |
| 33 | 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 over 0.5 m ² | 103.00 | sqm |
| 34 | Providing and fixing Kadappa stone slab for kitchen platform/clading , top of parapet wall of approved type and design 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. | 60.00 | sqm |

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| 35 | 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 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. | 11.00 | sqm |
| 36 | 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 plate glass fixed to the above frame using glazing clip with rubber gaskets, filling all gaps with appropriate fillers etc. all complete.(Jindal Make) | 5.00 | sqm |
| 37 | 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) | 11.00 | sqm |
| 38 | providing and fixing Stainless Steel sink of size 610mm x 460mm x 200mm(Approximate internal size of tank) 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 | nos |
| 39 | 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. | 21.00 | nos |

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| 40 | <p>Providing and fixing 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 jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete including scaffolding as per direction of Engineer in Charge. Exposed on wall, as per following dia</p> <p>a) 15mm dia</p> | 150.00 | Rmt |
| | <p>Providing and fixing 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 jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete including scaffolding as per direction of Engineer in Charge. Exposed on wall, as per following dia</p> <p>b) 20mm dia</p> | 100.00 | Rmt |
| | <p>Providing and fixing 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 jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete including scaffolding as per direction of Engineer in Charge. Exposed on wall, as per following dia</p> <p>c) 25mm dia</p> | 270.00 | Rmt |
| 41 | <p>Providing and fixing screw down of gun metal Gate Valve bearing I.S.I. Mark including socket, union nut etc. Complete. For following dia</p> <p>a) 20mm dia</p> | 20.00 | nos |
| | <p>Providing and fixing screw down of gun metal Gate Valve bearing I.S.I. Mark including socket, union nut etc. Complete. For following dia</p> <p>b) 25mm dia</p> | 10.00 | nos |

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| 42 | <p>Providing and fixing 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 weilding by using suitable welding machine or hot plate, testing the line & joint as per manufacturer specification etc. all complete as directed by Engineer In-charge.</p> <p>a) 75mm dia</p> | 160.00 | Rmt |
| | <p>Providing and fixing 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 weilding by using suitable welding machine or hot plate, testing the line & joint as per manufacturer specification etc. all complete as directed by Engineer In-charge.</p> <p>b)100 mm dia</p> | 55.00 | Rmt |
| 43 | <p>Providing and fixing P.V.C. rain water pipes for following 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 brakets 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 necessary scaffolding, and maintenance for 3 years for any leakages or dislocation of pipes. All the PVC fittings and additional two piece socket clips shall be got approved from engineer in charge complete.</p> <p>a) 100mm dia</p> | 16.00 | Rmt |
| | <p>Providing and fixing P.V.C. rain water pipes for following 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 brakets 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 necessary scaffolding, and maintenance for 3 years for any leakages or dislocation of pipes. All the PVC fittings and additional two piece socket clips shall be got approved from engineer in charge complete.</p> <p>b) 150mm dia</p> | 52.00 | Rmt |

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| 44 | 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 | 11.00 | nos |
| 45 | Providing and fixing 35mm FRP door manufactured by M/s. Advance Company including brass hinges, both side brass handles, brass aldorp, tower bolt, brass tadi patti etc. complete at any lovcation in residential building as directed. | 9.00 | sqm |
| 46 | Providing and fixing 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. | 3.00 | sqm |
| 47 | Providing and fixing 10 cm dia chromium plated brass shower rose Jaquor make to 15 mm dia. Supply pipe including necessary G.I. Bend and socket complete. | 11.00 | nos |
| 48 | P/F ½" dia CP Bib tap / stop tap of jaquar (continental series) including necessary fitting and fixtures etc. complete as directed | 22.00 | nos |
| 49 | Providing & fixing ISI approve heavy type two way bib cock jaquar make including necessary fixtures etc.complete as directed | 8.00 | nos |
| 50 | Providing and fixing health faucet jet spray set with tube of approved Jaguar make including necessary socket/ union etc. complete as directed. | 8.00 | nos |
| 51 | 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. | 3.00 | per no |

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| 52 | Providing & fixing 40mm dia. PVC pipe (heavy duty) with all fittings & fixtures making connection to old & new pipe line etc. complete as directed by Engineer. | 5.00 | Rmt |
| 53 | Providing and fixing chromium plated towel rod 20 mm dia and 75 cm. in length including all accessories complete. | 8.00 | nos |
| 54 | 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 including scaffolding etc. complete as directed. | 115.00 | sqm |
| 55 | 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. | 5.00 | cum |
| 56 | 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 | cum |
| 57 | Providing and laying at any floor ceramic tiles Johnson & Johnson /Nitco/ Kajaria/ Bell/ somani for flooring approved by IITB required size 300mm x 300mm 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. | 440.00 | sqm |
| 58 | Removing door and windows of any size and type with frame, mild steel / wrought iron grill work and stacking the same and taking away out of IIT campus for which 5% deduction will be made of schedule rate of this item. Etc. complete | 55.00 | nos |

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| 59 | <p>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.</p> | 55.00 | sqm |
| 60 | <p>Providing and fixing in position two track aluminium sliding windows using bottom 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 SS304 grade flyproof mesh in the shutter using aluminium U clip, approved quality minimum two nos. PVC rollers for each shutter,necessary locks,handles,PVC liningand other required fittings etc. complete as directed by engineer incharge. (all aluminium section should be 15 micron anodized/ section of Jindal make or as directed.)</p> | 55.00 | sqm |
| 61 | <p>Shifting all the material inside the flats to any where at the required location (vacant flat) in IITB campus & relocating the same to the original flats as per original arrangement etc. complete or as directed</p> | 2.00 | Per job |
| 62 | <p>Providing and applying White Birla make wall care putty Smooth Finish (SF) 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 using step ladder & cleaning etc. all complete as directed.</p> | 500.00 | sqm |

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| 63 | Scrapping the entire wall / ceiling surface thoughly with patra & sand paper, filling the holes with lambi / POP, Providing and applying one coat of seal cement primer of IITB approved brand, applying the entire area with readymade wall putty, covering the floor, windows, instruments during priming coat as required etc. complete. | 2720.00 | sqm |
| 64 | Providing and applying 2nd coat seal cement primer over the prepared surface of walls / ceiling, including stepladder / scaffolding and cleaning the surface as directed. | 2720.00 | sqm |
| 65 | Providing and applying two coats of 1st quality Acrylic distemper of approved brand quality colour and shade (of Asian paints , Berger or any other approved product of ICI or Goodlass, Nerolac) on old/new wall surfaces as per manufacturers specification in two coats & necessary levelling to undulated surfaces & preparing the surfaces smooth with the readymade putty – medium finish & POP wherever required with the help of step ladder & cleaning the stains on flooring surfaces etc. all complete as directed. | 970.00 | sqm |
| 66 | Providing and applying roller finish Acrylic plastic emulsion paint of of IITB approved manufacturer and of desired colour and shade to old / new ceiling & wall surfaces in two coats with the use of stepladder, preparing the surface smooth by applying readymade Acrylic wall putty again if required, with the help of step ladder etc all complete as directed. | 1750.00 | sqm |
| 67 | 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, fiiling holes with lambi / palti leavelling the surface cleaning etc. Complete. | 100.00 | sqm |
| 68 | Providing and fixing solid core flush door in single or double leaf 32mm thick of commertial type of exterior grade, approved commertial plywood facing both side without glazing and venetians, all necessary beads, moulding and lipping, 300mm long 2 nos. decoretive 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) | 10.00 | sqm |

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| 69 | 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, marine plywood 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 stainless steel aldop, other require fittings and fixtures etc. complete. | 10.00 | sqm |
| 70 | Providing and fixing 2nd class country teakwood frame for doors, windows, ventilators at any height any floor by using wood of 95mm x 70mm, 120mm x 70mm, 145mm x 70mm (finished size) or other required size as per site condition including all moulding, rebating, hold fast and finishing applying coal tar on the external faces of frame, wood primer and two coats of oil paint etc. complete. | 1.00 | cum |
| 71 | 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 | 90.00 | Rmt |
| 72 | 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 (if required) and refixing the same shutter after rectification, painting work with new brass hinges, screws etc. complete. | 10.00 | nos |
| 73 | Providing and fixing Jute kantan (Tarat) screen over to the scaffolding of external plastering / repairing removing the same after the work gets completed & jute kanthan can be reused 2 to 3 times only if the condition is good ,damaged jute kantan after repeated use will not be allowed to reuse etc.complete. (The elevational area of the covered portion shall be measured for payment purpose) | 1200.00 | sqm |
| 74 | Providing and erecting on hiring basis Mechanical lift in spefied building for shifting material and lowering down debris with steel tubular H – frame double scaffolding with bracings to all heights till completion of work as directed by engineer in charge before commencement of work and removing the same after completion of all waterproofing work requiring double scaffolding.all complete as directed by Engineer In-charge. | 1.00 | Per job |

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| 75 | 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 competant authorities for disposing off on to their approved location. The debris are to be removed from site within 72 hours from stacking (30% voids will be deducted from actul stack measurement/ truck measurement for debris, loose stones, boulders etc.). | 100.00 | cum |
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1) Note : This schedule of work is given for reference purpose only. Contractors are requested to quote your rates online in financial bid.

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

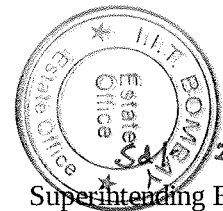
3) This work is to be executed as per the the clauses mentioned in the tender document signed by you. In addition to the existing safety clause of the tender document a penalty of Rs.5,000/- per case will be recovered from the bills of the particular works, in case any such safety violations are noticed.

4) 01% amount will be deducted from the bills for safety related measures which will be reimburse along with the final bill.

5) Taxes as per government notification time to time.

6) Contractor must pay GST Taxes to concern authority within 30 days time limit after receipt of payment from IIT Bombay & said record must be submitted to IIT Bombay Accounts Section, otherwise action will be taken as deemed fit.

7) If any malpractices / fraud / negligent professional behaviour or any discrepancy / inconsistency / disparity / deviation / disagreement / dissimilarity / mismatch noticed, their contract will be terminated by issuing one month notice by following legal procedure and will be blacklisted and informed to all Government Authorities and Organisations.



Superintending Engineer (I/C)

Handwritten signatures and dates: 21/03/24, 22/3