



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.	Providing and laying chemical waterproofing treatment with minimum 5 years comprehensive guarantee on flat/slope terrace of china chips/IPS top layer/APP of Tulsi A/B/C, Type I-17/18, H1-12/13, and Bungalows 14/15/18 and 19 with minor civil repair works at Hillside area. EO/A/HILLSIDE/WKS-144/23-24	Rs.82,59,541/-	Rs.1,65,000/-	04 months	6100001685

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 07.03.2024 to 15.03.2024. Date of opening of **Technical Bid will be 15.03.2024 at 11.30 a.m. and and Financial Bid 20.03.2024 (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.

Note: Similar work for this clause means Civil & Structural repair works, Specialised waterproofing works, Painting & interior works, and fabrication, additions & alteration works

- 2) Detail statement for work completed, work in hand including balance commitment of work should be enclosed for last three year commencing from 1st April and ended with 31st March and contractor should submit his details as per Annexure'A' format with support of xerox copies of work order and work completion certificates, otherwise the bid capacity will not be calculated and his technical bid will be summarily rejected, and no Financial Bid will be opened. (All contractors/agencies are hereby informed that they should upload Technical bid as per format of Annexure "A", changing in format is not allowed).
- 3) Upload a scan copy of the information in respect of **manpower/mandays** for above said work must be given in **undertaking** with official signature and seal/stamp, otherwise tender will be **rejected**.
- 4) Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank from the date of publishing of Tender.
- 5) P. F. registration certificate.
- 6) P. F. challans of last 12months.
- 7) (i) ESIC registration certificate and copies of ESIC challans of last 12months.
OR
(ii) Contractors' all risks insurance (CAR policy) / Mediclaim policy.
- 8) PAN card.
- 9) GST registration certificate.

- 10) Income Tax Return for last 03 years i.e. of **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.1,65,000/- (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** 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.

R. Sapru
07/03/2024
Superintending Engineer (I/C)

TO BE UPLOADED ON SRM TENDERING PORTAL WITH FINANCIAL BID

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

File No. : EO/A/HILLSIDE/WKS-144/23-24

Name of Work : Providing and laying chemical waterproofing treatment with minimum 5 years comprehensive guarantee on flat/slope terrace of china chips/IPS top layer/APP of Tulsi A/B/C, TypeI-17/18,H1-12/13, and Bunglows 14/15/18 and 19 with minor civil repair works at Hillside area.

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.

R. S. Gupta
07/03/2024

Superintending Engineer

[Signature] *[Signature]*

Signature of Contractor
Name & Address in full

WORKS UNDERTAKING

EO/A/HILLSIDE/WKS-144/23-24

To,
Superintending Engineer,
Indian Institute of Technology,
Powai, Mumbai – 400 076.

Sub : Providing and laying chemical waterproofing treatment with minimum 5 years comprehensive guarantee on flat/slope terrace of china chips/IPS top layer/APP of Tulsi A/B/C, TypeI-17/18,H1-12/13, and Bunglows 14/15/18 and 19 with minor civil repair works at Hillside area..

Dear Sir,

We are hereby quoting all the rates for the attached schedule of short tender of the above mentioned job.

We hereby accept & signed all the General Terms and Conditions and special Conditions of Contract.

The work will be completed within specified time limit of **04 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. :

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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
ESTATE OFFICE

EO/A/HILLSIDE/WKS-144/23-24

Name of Work :-Providing and laying chemical waterproofing treatment with minimum 5 years comprehensive guarantee on flat/slope terrace of china chips/IPS top layer/APP of Tulsi A/B/C, Type-17/18,H1-12/13, and Bunglows 14/15/18 and 19 with minor civil repair works at Hillside area.

Schedule of work

Sr No.	Description	Qty.	Unit
1	Removing the loose/damaged cement concrete top layer/IPS layer/China chips layer of thickness upto 50mm, manually /by mechanical means without damages/ disturbing to slab/ beam,column/ Brick bat coba/ any RCC members/ Structural including disposing of material within 50 meter lead as per the direction of Engineer-in-charge (throwing down the material from terrace will not be allowed). Note: This item will be considered for payment only for top layer removal i.e. IPS/China Chips above Brick Bat Coba	1200	sqm
2	Removing the existing loose and damaged brickbat coba waterproofing treatment including loose/damaged cement concrete top layer/IPS/China Chips layer from the top of terrace up to any thickness with out making any damages to the roof slab with the use of sharp chisels, electric cutter(pulverising/boshing too breaking machine to avoid crack and vibration to structure) levelling and cleaning the roof surface for providing new specialised waterproofing treatment etc. all complete. The waterproofing has to be cut before breaking by cutter machine in a suitable grid of not more than 60 cm x 60 cm upto any depth without damaging the slab concrete.	300	sqm
3	Removing the loose mortar joints between the brickbat coba waterproofing layers on terrace and brick walls carefully with sharp chisels with out damaging the waterproofing treatment and brick walls cleaning washing with water and filling the joints with cement mortar 1:2 adding recommended waterproofing admixture, filling water for 03 days, testing the leakages etc. complete.	200	sqm
4	Providing and laying brick bat coba waterproofing treatment of 115mm av. thickness consisting of 25mm thick layer in cement mortar 1:3 as base layer with IIT approved water proofing compound 2% by weight of cement as per manufacturer specification, thoroughly cleaning the surface with water upto the RCC slab, removing all the debris,dust by using vacuume pump applying cement slurry at rate of 2.75kg of blanded cement per sqm coverage before laying the base coat cement mortar and also before the finishing over brick bats constructing and laying brick bat coba and filling joints while laying of topping cement mortar with waterproof compound as stated above and finishing with 20mm thick cement plaster layer in cement mortar 1:3 with IIT approved water proofing compound making 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/without china chips as directed, curing for 28 days and covering the whole treatment with minimum of Five years' guarantee, on requisite nonjudicial stamp paper etc. complete, including Note: Contractor will provide minimum of 05 years quarantee for work carried out his/her side.	35	cum

5	<p>Providing and laying water proofing cement concrete flooring to terrace to average 50mm thickness with 1:2:3 cement concrete laid to proper level and slope using silt free clear river sand including compaction, filling joints, adding recommended waterproofing admixtures at the rate of 1Kg per cement bag, laying in required position flooring of broken china mosaic (broken piece of glazed tiled) of approved colour & pattern over a bed of cement mortar 1:4 adding waterproofing compound as per manufacturer's specification, finishing with neat cement float, giving proper slopes, compaction, curing, finishing preparing bell mouth including all lead and lifts etc. testing the roof by ponding with water for 14 days, providing waterproofing guarantee for Minimum of 5 (Five) years in requisite non judicial stamp paper in favour of IITB etc. Complete. Note: In case of leakage during monsoon, contractor has to rectify leakage within 24hrs of intimation given by Estate Office, else Estate Office shall cover the surface with tarpaulin sheet at contractor's risk and cost. ✓</p>	1200	sqm
6	<p>Treatment for flat surface /vatta /khurra /parapet top/Junction & support of pipes. 1) Thorough cleaning & base preparation. Cleaning the roof slab by brush and broom, if any cracks found shall be filled with approved cementitious/chemical waterproofing coating for Protecting Concrete and Masonry, mortar and making the surface smooth for receiving the water proofing treatment as per manufacturer's specification. 2) Primer coat. Applying a primer coat of chemical water proofing products/brands as per the approved painting policy, over the prepared surface to obtain good bonding between surface & waterproofing membrane as per manufacturer's specification. 3) 1st coat of waterproofing. Applying 1st coat of chemical water proofing products/brands as per the approved painting policy, on the primer coat as per manufacturer's specification. 4) 2nd coat of waterproofing. Applying 2nd coat of chemical water proofing products/brands as per the approved painting policy. Period for air curing of waterproofing process between the coats as per the manufacturer's specification. 5) Geoextilecloth/polyster fleece/Reinforcement Providing and laying Geo-textile/Reinforcement membrane of required thickness in between the layers of waterproofing as per manufacturer's specification. ✓</p>	620	sqm
7	<p>Removing the existing waterproofing sheet bitumen/ dongri cloth/ tarfelt layer coating etc, of any thickness of terrace water proofing without damages to structure, brick bat layer, using electrically operated cutting tools, (pulversing/boshing tool breaking machine to avoid crack and vibration to structure) grinder, leveling and cleaning the surface for providing new waterproofing treatment etc. all complete, (throwing down the APP/Tarfelt sheet from terrace will not be allowed). ✓</p>	1850	Sqm
8	<p>Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane including finishing surface with heat reflective bitumen based silver paint @0.10 ltr/sqm and covering the hole treatment with five years guarantee, on requisite stamp paper etc. complete ✓</p>	1850	sqm

9	Removing the existing cement plaster in patches or any length without damaging structure,brickwork in the vicinity by using electric cutting tools including cutting groove first to demarcate exact area of damage taken place without causing dust nuisance and stacking the debris up to a distance of 50 meters in the compound and cleaning the site as directed, bricks will not be allowed to be broken while removing the plaster.✓	100	sqm
10	Providing sand face plaster externally using approved screened sand in all positions including base coat of 15mm thick in cement mortar 1:4 using water proofing compound per cement bag as per manufacturer specification and curing the same for not less than two days and keeping the surface of base coat rough to receive the sand faced treatment not to exceed 8mm thick in cement mortar 1:4 using water proofing compound per cement bag as per manufacturer specification as per manufacturer specification, finishing the surface by taking out grains and curing for 14 days, scaffolding etc. Complete.✓	175	sqm
11	<u>Vertical wall waterproofing for internal & external parapet wall,lift machine room walls & junction of pipes.</u> Providing and applying waterproofing treatment for vertical wall with one coat primer and required coat of chemical water proofing products/brands as per the approved painting policy. The item includes the preparation of vertical surface as per the site condition,filling of the cracks and make the surface smooth to receive the waterproofing treatment as per the manufactureres specification. Necessary arrangement for working platform/ scaffolding/ any mechanical means for execution of the waterproofing treatment to the external vertical walls shall be made by the contractor. Note:- In case of leakage/seepage found during rain, contractor has to cover terrace with tarpaulin sheet to stop the leakage /seepage. If contractor fails to do it during rain, Institute will cover the terrace at contractor's risk and cost.✓	100	sqm
12	Chipping the RCC surface and cleaning the rusted reinforcement and exposed surface by wire brush mechanical device or any other establish method and applying rust removing solution of approved make and quality with cotton waste slab to reinforcement and allowing to dry the same for 24 hours, brushing of loose particles and applying 1st coat of rust preventing coating of polymer and cement slurry in 1:1.5 proportion with soft brush without adding water including applying another coat of rust preventing after 4 hours allowing Air curing for 48 hours etc. including scaffolding etc. all complete as directed by Engineer In-charge.✓	175	sqm
13	Providing and applying an effective bond coat of Polymer (SBR) Stuco latex of structural waterproofing (Cicco)/ Resicon 400, and cement in the proportion of 1:1 by using brush in multiples of coat as required to accommodate the whole thickness of PMM wherever required on the surface of old concrete / repaired concrete Polymer (SBR) of approved manufacturer should have the following properties: Suspended solid particles should not be less than 40%. b) Specific gravity should not be more than 1.01 c) 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. The chemical to be procured in sealed container & seal to be opened in presence of the IITB representatives.	175	Kg

14	Providing and Placing in position Readymix Polymer mortar manufacture by Dr.Fixit, Sunanda, Roff or M.C. Bouchmey, Chembond and adding water in the proportion of 1:0.14 (Polymer mortar: water) or as per manufacturer specification 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 used on weight basis.Challans and fax invoice of authorized dealer will be verified) etc.all complete as directed by Engineer In-charge.✓	4400 ✓	Kg ✓
15	Providing and laying in situ plain cement concrete M-20 having proportion not less than 1:1.5:3 with minimum cement content of 360kg/cum as per IS 456-2000 for pedestal support to newly laid GI pipe on parapet wall,coping and bedding,etc.The rates shall include centering shuttering compacting by vibrator and curing etc., complete.✓	2 ✓	cum ✓
16	Disposing debris , loose stones, boulders, concrete pieces,Bitumen sheet/dongri cloth/ tarfelt sheet, broken and dry leaves etc. including clearing the surrounding area as directed including loading in trucks, transporting out of IIT Campus including obtaining all approvals permission of BMC competent authorities for disposing of on to their approved location . The debris are to be removed from site within 72 hours from stacking , 30% voids will be deducted in case of truck measurement.✓	120 ✓	cum ✓
17	Lowering down the debris of the existing waterproofing treatment from the terrace by any means without causing dust nuisance and damages to structure, stacking the same as and where directed including cleaning the site complete, transporting it to the authorized dumping ground as directed. 30% void will be deducted in case of truck measurement.✓	120 ✓	cum ✓
18	Providing and fixing C-Class G.I. pipes 15mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls Including remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe,if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .(Any waterproofing for joints,bends etc is required shall be taken care by the agency.Required scaffolding includes in the item.Nothing shall be paid extra under this head) ✓	20 ✓	Rmt ✓
19	Providing and fixing C-Class G.I. pipes 20mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls Including remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe,if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .(Any waterproofing for joints,bends etc is required shall be taken care by the agency.Required scaffolding includes in the item.Nothing shall be paid extra under this head) ✓	380 ✓	Rmt ✓

20	Providing and fixing C-Class G.I. pipes 25mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes in walls Including remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe,if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .(Any waterproofing for joints,bends etc is required shall be taken care by the agency.Required scaffolding includes in the item.Nothing shall be paid extra under this head) ✓	20	Rmt
21	Providing and fixing C-Class G.I. pipes 40mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes on parapet walls Including remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe,if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .(Any waterproofing for joints,bends etc is required shall be taken care by the agency.Required scaffolding includes in the item.Nothing shall be paid extra under this head) ✓	370	Rmt
22	Providing and fixing C-Class G.I. pipes 50mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes on parapet walls Including remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe,if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .(Any waterproofing for joints,bends etc is required shall be taken care by the agency.Nothing shall be paid extra under this head) ✓	830	Rmt
23	Providing and fixing C-Class G.I. pipes 80mm internal diameter heavy type weight and outer dia,as per IS requirement and embossed at every meter as ISI mark and name of the manufacturer Like, Tata/ Jindal/ Zenith etc. to walls, ceilings,etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. projecting 50mm from face of wall and fixing on wall by means of galvanised bracket of 30 x 5mm plate and 8mm square rod with G.I. clamp with washer including necessary drilling in holes on parapet walls Including remaking good the demolished portion to restore the same in original condition neatly and applying metal primer and two coats of SEP including removing the existing pipe,if available and contractor will be allowed to take away old pipe and for which 5% deduction will be made of schedule rate of this item .(Any waterproofing for joints,bends etc is required shall be taken care by the agency.Nothing shall be paid extra under this head) ✓	60	Rmt
24	Providing and fixing 15 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. contractor will be allowed to take away old gate valve if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete. ✓	5	Per No

25	Providing and fixing 20 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. contractor will be allowed to take away old gate valve if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete. ✓	30 ✓	Per No ✓
26	Providing and fixing 25 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. contractor will be allowed to take away old gate valve if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete. ✓	5 ✓	Per No ✓
27	Providing and fixing 40 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. contractor will be allowed to take away old gate valve if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete. ✓	30 ✓	Per No ✓
28	Providing and fixing 50 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. contractor will be allowed to take away old gate valve if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete. ✓	30 ✓	Per No ✓
29	Providing and fixing 80 mm dia (n.b) gun metal UTAM make heavy gate valve bearing IS marks including necessary fixtures and fittings such as sockets, union etc. as required and fixing in proper position all complete. contractor will be allowed to take away old gate valve if available and for which 5% deduction will be made of schedule rate of this item. Etc. complete. ✓	15 ✓	Per No ✓
30	Providing second class burnt brick masonry with conventional / I.S. Type bricks in cement mortar 1:4 in superstructure including striking joints, racking out joints, watering etc. complete. ✓	6 ✓	cum ✓
31	Providing and laying temporary loop connection to main water supply inlet and outlet of water tank with 'C' class pipe of required length and dia elbows, tees, reducers, plugs, clamps etc. including other connections and commissioning the water supply line and remaking to original connections after all repair work of tank etc. complete.(After removing of the temporary loop connection necessary waterproofing for the surface ,if any shall be taken care by the contractor.) ✓	15 ✓	Per Job ✓
32	Dismantling plain cement concrete work including breaking concrete by mechanical means/ chiseling, wedging etc., and stacking the debris upto a distance of 50 meters or spreading/leveling in low laying area as directed by Engineer Incharge. ✓	1 ✓	cum ✓
33	Dismantling R.C.C. work including breaking concrete by mechanical means, chiselling, wedging etc., cutting the reinforcement, stacking the serviceable materials and stacking the debris upto a distance of 50 metres or spreading/leveling in low laying area as directed by Engineer Incharge. as directed. ✓	1 ✓	cum ✓
34	Providing and casting in situ dense and impervious cement concrete M-25 having proportion not less than 1: 1: 2 trap metal for R.C.C. overhead water tank slab, lintel, beam and chajja as per detailed designs and drawing or as directed by Engineer Incharge including erecting plywood shuttering with strutting,propping etc. and removal of formwork, necessary compaction,curing etc Only steel centering and formwork is to be used. ✓	1 ✓	cum ✓

35	Providing and fixing in position tor steel TMT bar Fe 500 reinforcement of various diameters for R.C.C. slabs, beams, columns, chajjas, lintels, pardies, foundation, footings, columns, plinth beam etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting including scaffolding as required complete.	100	Kg
36	Providing and laying protective top layer of screeding/chemical coatings as per the manufactureres specification to protect the entire waterproofing system. The rates inclusive of lead & lift of material,etc all inclusive.	620	sqm

NOTE :

- 1) Guarantee as per manufactureres specifications on requisite stamp paper including premansoon visit and necessary maintenance during mansoon to avoid leakage/seepage.
- 2) Lift shall not used for the movement of material and labour.
- 3) Proper and necessary safety measures shall be ensured by the contractor during the entire duration of the work.

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) Taxes as per government notification time to time.

5) 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.

6) 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.

M. S. Chavhan
07/02/2024

M. S. Chavhan
Superintending Engineer (I/C)