

[Validate](#)[Print](#)[Help](#)[Item Rate BoQ](#)Tender Inviting Authority: **Dean (Admin)**Name of Work: **Washroom Renovation work at Institute for Plasma Research Campus, Bhat, Gandhinagar (IPR), – 382428, Gujarat.**Contract No: **IPR/TN/CIVIL/10/2022**

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE**(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

"Note:-

1. For detailed Specification, Contractor has to refer and follow Specifications Volume-I and Volume-II, 2019, CPWD (Central public works department) available on online CPWD portal (https://cpwd.gov.in/Documents/cpwd_publication.aspx) including material, workmanship, equipment's, IS code etc.
2. All the items are including scaffolding, curing, for all leads and lifts etc.
3. In case of non-availability of detailed specification in CPWD 2019, Specification of the same shall be executed as per clauses mentioned in GCC and / or as directed by Engineer-In-Charge, whose decision shall be final. No extra shall be payable for execution of items as mentioned in Schedule of Quantities as a result of adopting detailed specification or India Standard of relevant or Other Standards thereon.
4. All respective items should be as per the approved make / brands / list attached in Tender document"
5. Rate includes preparing of as built drawing in Autocad or equivalent software i.e. water supply, drainage, toilet fittings and fixtures (conceal & open) for all renovated toilets and submit it to Institute.

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	RATE In Figures To be entered by the Bidder in Rs. P including GST & all taxes	TOTAL AMOUNT Including GST & all Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	7	14	15
1	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge. Note: Suitable space shall be identified by contractor including taking of permission from local authority if any.	item1	30.00	Cum		0.00	INR Zero Only

2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. For All kind of soil Note: Excavation need to be done Manually as per site condition.	item2	6.00	Cum		0.00	INR Zero Only
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete in all respect as directed by EIC.	item3	4.00	Cum		0.00	INR Zero Only
4	Supplying chemical emulsion in sealed containers including delivery at site as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	item4	20.00	Litre		0.00	INR Zero Only
5	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.: With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	item5	12.00	Mtr		0.00	INR Zero Only
6	Providing and injecting Chemical emulsion for PRE-CONSTRUCTIONAL Anti-termite treatment and creating a chemical barrier on top surface of plinth filling, junction of inside wall and floor as per IS 6313(part-II)-1981With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration. The emulsion is spread at 5 lit/sqm on top surface of plinth filling and at 1 lit/linear meter along the junction of wall and floor, all as per specifications and directions. (Plinth area of the toilet shall be measured)	item6	40.00	Sqm		0.00	INR Zero Only
7	Providing and constructing BRICK MASONRY in cement mortar as per mixes stipulated below using approved well burnt bricks of "CLASS DESIGNATION" (Classification as per I.S.1077-1986) as specified below, including raking out joints 10mm deep wherever required, curing, etc; complete at all lead and lifts all as per specifications (The mix ratio specified is for cement : coarse sand) USING BRICKS OF CLASS DESIGNATION "3.5"(Minimum Average Compressive strength not less than 3.5 N/sqmm) In foundation and plinth in cement mortar 1:6. Price includes fixing of chair bracket/rag bolt into masonry Complete all as directed by EIC.	item7	1.10	Cum		0.00	INR Zero Only

8	Providing and constructing HALF BRICK MASONRY walls/partitions in following mixes using approved well burnt bricks of "CLASS DESIGNATION" (Classification as per I.S. 1077-1986) as specified below, including scaffolding, raking out joints, curing, etc; at all lead and lifts all as directed by the Engineer -in- charge. In SUPERSTRUCTURE UPTO FLOOR-V LEVEL. (The mix ratio specified is for cement : coarse sand) Using bricks of "class designation 3.5"(Minimum Average Compressive Strength not less than 3.5N/sqmm) In cement mortar 1:4 Complete all as directed by EIC. Price includes fixing of chair bracket/rag bolt into masonry.	item8	15.00	Sqm		0.00	INR Zero Only
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	item9	4.00	Cum		0.00	INR Zero Only
10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of required size and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth -Granite Stone of approved shade with both side polished	item10	3.00	Sqm		0.00	INR Zero Only
11	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent Note: Door sill of required size	item11	2.00	Sqm		0.00	INR Zero Only
12	Providing and laying anti slippary rectified Glazed Ceramic floor tiles of approved size (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), straight edge laid with a joints (between tiles) of 3 to 5 mm filled / grouted using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), cleaning etc., scaffolding, curing etc., at all leads and lifts at all heights & in all floors Complete all as directed by EIC. Note: The shade & Size of the tiles shall be got approved by the EIC.	item12	35.00	Sqm		0.00	INR Zero Only

13	Providing and laying Rectified Ceramic tile on wall/dadoing in desired pattern of approved premium quality of size up to 600x450 mm or more (thickness to be specified by the manufacturer), colour and thickness according to the dimensions of tiles and having scratch hardness and other parameter conforming to IS 15622 and of specified sizes with straight edge laid with a joints (between tiles) of 3 to 5 mm filled / grouted using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), cleaning etc. and laid on 20 mm thick cement plaster (1 cement: 4 coarse sand) average & bed of 3 mm (average) cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477 and finishing to required level, scaffolding, curing etc. complete at all lead and lifts, all as per specifications and Complete all as directed by EIC. Note: The shade & Size of the tiles (size 600mm x 450 mm) shall be got approved by the EIC.	item13	165.00	Sqm		0.00	INR Zero Only
14	Dholpur stone slabs (Pink / Red) 18-20 mm thick polished/ rough in dado and pillars etc.in required design and pattern wherever required, stones of different finished surface texture, laid on 20 mm thick plaster / 35 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with white/grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as directed by the Engineer-in-Charge.	item14	12.00	Sqm		0.00	INR Zero Only
15	Dholpur stone slabs (Pink / Red) 25 mm thick polished/ rough in risers/trade of steps, skirting etc.in required design and pattern wherever required, stones of different finished surface texture, laid on 35 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with white/grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as directed by the Engineer-in-Charge.	item15	8.00	Sqm		0.00	INR Zero Only
16	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand) Note: Plaster should be wired finished to receive tiles for Dado works.	item16	35.00	Sqm		0.00	INR Zero Only
17	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand) Note: The Plater should be of single coat Mala finished.	item17	17.00	Sqm		0.00	INR Zero Only
18	Cement plaster 1:3 (1 cement : 3 course sand) finished with a floating coat of neat cement 20 mm cement plaster Note: water proofing plaster for any lead and lift. Water proofing compound material shall be paid under respective item	item18	50.00	Sqm		0.00	INR Zero Only
19	Sand faced plaster- 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough using wooden gutka. Note- This item is for patch work including any lead and list for all heights	item19	10.00	Sqm		0.00	INR Zero Only

20	<p>Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.</p> <p>Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm²).</p> <p>Plastering 25 mm average thickness in 2 layers.</p>	item20	8.00	Sqm		0.00	INR Zero Only
21	<p>Extra for providing and mixing water proofing compound / material as per IS 2645 in cement plaster work in proportion /doses by weight of cement recommended by the manufacturers.</p>	item21	60.00	per bag of cement		0.00	INR Zero Only
22	<p>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.</p> <p>Note:- Removing of emulsion paint, white wash, oil paint or enamel paint for Internal wall, exterior paint on external wall (including washing), wood work, steel work etc. by sand paper, wire brush, roll paper etc. to receive fresh coat of paint is also covered under item. Rates includes scaffolding. Measurements will be done as per relevant IS Code. Complete all as directed by EIC.</p>	item22	60.00	Sqm		0.00	INR Zero Only
23	<p>Providing and applying white cement based putty two or more coat to achieve required finish on wall, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.</p> <p>Note:-for internal walls only, Rates includes scaffolding and sand papering of wall after putty. The thickness of putty should be 0.50 mm or more. Measurements will be done as per relevant IS Code</p>	item23	60.00	Sqm		0.00	INR Zero Only
24	<p>Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :</p> <p>Water thinnable cement primer</p> <p>Note:- For Internal wall only, rates includes scaffolding. Measurements will be done as per relevant IS Code. Complete all as directed by EIC</p>	item24	60.00	Sqm		0.00	INR Zero Only
25	<p>Wall painting with premium acrylic emulsion paint of interior grade, 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.</p> <p>TWO coat</p> <p>Note:- Rates includes scaffolding, crack opening and filling with approved filler material. Measurements will be done as per relevant IS Code. Complete all as directed by EIC</p>	item25	60.00	Sqm		0.00	INR Zero Only

26	Dismantling doors, windows and clearstorey windows (steel or wood) shutters including chowkhats, archi-trave, holdfasts, etc; complete and stacking within 50mtrs lead. Of area 3sqm and below.	item26	14.00	No.s		0.00	INR Zero Only
27	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	item27	40.00	Sqm		0.00	INR Zero Only
28	Dismantling china mosaic dado laid in cement mortar & cement punning including stacking material within 50 metres lead For thickness of tiles 10 mm to 25 mm. Note- Dismantling the china mosaic dado and cleaning the surface in such a way that new plaster can be applied..	item28	50.00	Sqm		0.00	INR Zero Only
29	Dismantling tile work in dado laid in cement mortar & cement punning including stacking material within 50 metres lead For thickness of tiles 10 mm to 25 mm Note- Dismantling the glazed tiles dado and cleaning the surface in such a way that it can take new plaster.	item29	50.00	Sqm		0.00	INR Zero Only
30	Dismantling the old plaster or skirting, raking out joints, and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead.	item30	170.00	Sqm		0.00	INR Zero Only
31	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	item31	5.50	Cum		0.00	INR Zero Only
32	Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50mtrs lead.	item32	1.00	Cum		0.00	INR Zero Only
33	Demolishing brick bat cement concrete / cinder filling only manually means including disposal of material within 50 metres lead as per direction of Engineer - in - charge Nominal concrete 1:5:10 or leaner mix (i/c equivalent design mix)	item33	8.00	Cum		0.00	INR Zero Only
34	Providing and laying in position brick bat cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 brick bats 65 mm nominal size)	item34	8.00	Cum		0.00	INR Zero Only
35	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	item35	50.00	Sqm		0.00	INR Zero Only

36	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 250 metres lead or as directed by EIC	item36	6.00	No.s		0.00	INR Zero Only
37	Dismantling of existing old water closet (EWC) with drainage pipe, bib cock, angle cock, pvc connection, seat cover, health faucet, flush valve and other connections of WC including disposal of unserviceable materials within 250m lead or as directed by EIC.	item37	6.00	No.s		0.00	INR Zero Only
38	Dismantling of existing old Urinal including granite/Marble partition, waste coupling, flushing pipe, pvc socket, stop cock, push cock, bottle trap, spreader and other connections of urinal including disposal within 250m lead or as directed by EIC.	item38	4.00	No.s		0.00	INR Zero Only
39	Dismantling of old wash basin with CI bracket support, pillar cock, angle cock/stop cock/waste coupling, liquid soap container, waste pipe up to NT, towel rail and other connections including disposal within 250m lead or as directed by EIC.	item39	7.00	No.s		0.00	INR Zero Only
40	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap. Note: Including dismantling of PCC, Brick work, plaster, CI cover, connecting pipes etc	item40	8.00	Each		0.00	INR Zero Only
41	Dismantling of Nahni Trap of various sizes including C.I. grating / cover with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	item41	12.00	Each		0.00	INR Zero Only
42	Dismantling of old cast iron pipe of different diameters (Approx length- 25 m), GI pipes (Approx length- 25 m), including stacking of useful materials and disposal of unserviceable materials within 200 metres lead. - For one toilet Block (Ladies or Gents)	item42	4.00	Job		0.00	INR Zero Only
43	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	item43	6.00	No.s		0.00	INR Zero Only
44	Providing and fixing health faucet Cast brass grade LCB-2 of IS292/1983 (Faucet) of chrome finish with minimum 1 metre SS braided flexible rubber hose pipe, wall hook /holder and mounting fasteners etc of approved make and quality for water pressure 1-3 bar .Complete all as directed by EIC.	item44	6.00	No.s		0.00	INR Zero Only

45	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps Auto closing system Press matic type, 32 mm C.P. brass waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550 x 400 mm with single 15 mm C.P. brass pillar tap Auto closing system Press matic type Note- CP brass waste coupling suitable for wash basin (Full threaded or Half threaded)	item45	7.00	No.s		0.00	INR Zero Only
46	Providing and fixing G.I. "B" class Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : Up to 1.00 meter length 40 mm dia nominal bore G.I. "B" class NOTE: - washbasin drain line up to Nahni trap	item46	7.00	No.s		0.00	INR Zero Only
47	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931- 15mm Weight of angle valve shall be 400 Gms	item47	19.00	No.s		0.00	INR Zero Only
48	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	item48	25.00	No.s		0.00	INR Zero Only
49	Providing and Fixing in position 15mm n.b. CP Brass bib cock of approved make and quality conforming to IS:8931. 15 mm nominal bore	item49	6.00	No.s		0.00	INR Zero Only
50	Providing and fixing uplasticised braided PVC connection pipe with brass unions-45 cm length 15 mm nominal bore	item50	18.00	No.s		0.00	INR Zero Only
51	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge	item51	7.00	No.s		0.00	INR Zero Only
52	Providing and fixing white vitreous china flat back urinal basin of 430x260x350 mm sizes respectively.	item52	4.00	No.s		0.00	INR Zero Only
53	Providing and fixing of the Urinal Valve Auto Closing System with Built-in Control Cock, Wall Flange and CP brass extension nipple with CP brass distribution pipe and CP brass heavy spreader of best approved quality as directed by EIC	item53	4.00	No.s		0.00	INR Zero Only
54	Providing and fixing P.V.C. waste pipe for Urinal including P.V.C. waste fittings complete. Flexible - 40 mm dia	item54	4.00	No.s		0.00	INR Zero Only
55	Providing and fixing toilet paper holder- C.P. brass	item55	6.00	No.s		0.00	INR Zero Only
56	Providing and Fixing in position best CP brass towel rail of approved make of 600 mm long with a pair of brackets or flanges fixed to wall with necessary screws, plugs, etc. all as specified and directed by EIC.	item56	4.00	No.s		0.00	INR Zero Only

57	Providing and fixing 5 mm thick best quality MIRROR - of 600 x 450 mm size with Rawl plug, CP Brass Screws of required size, Second class teak wood moulded frame of size 30 mm x 25 mm (finished) of approved quality, 12 mm thick water proof plywood as backing, polishing of the exposed wood and plywood, including removing of existing mirrors, backside supporting ply woods and other fittings, stacking of useful material serviceable material at suitable place and disposing of debris outside campus etc.	item57	7.00	No.s		0.00	INR Zero Only
58	Providing and Fixing in position CP Brass liquid soap container (Approx. 400 ml) with CP brass brackets, CP cap screws, washers etc, fixed to wall with necessary plugs etc. all as specified and directed by EIC.	item58	7.00	No.s		0.00	INR Zero Only
59	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal dia Pipes	item59	4.00	Mtr		0.00	INR Zero Only
60	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal dia Pipes	item60	60.00	Mtr		0.00	INR Zero Only
61	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 25 mm nominal dia Pipes	item61	25.00	Mtr		0.00	INR Zero Only

62	<p>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.</p> <p>Concealed work, including cutting chases and making good the walls etc.</p> <p>40 mm nominal dia Pipes</p>	item62	25.00	Mtr		0.00	INR Zero Only
63	<p>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.</p> <p>Concealed work, including cutting chases and making good the walls etc.</p> <p>50 mm nominal dia Pipes</p>	item63	20.00	Mtr		0.00	INR Zero Only
64	<p>Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.</p> <p>For External work - 50 mm dia nominal bore - B class</p>	item64	30.00	Mtr		0.00	INR Zero Only
65	<p>Supply, Laying and Fixing in position under floor, against wall in chases PVC SWR Drainage pipes and specials, rubber rings conforming to Type "B" of IS:13592 approved make as per manufacturers specification including cutting the pipes to required lengths, necessary excavation, converter if requires for connection to floor traps, chasing and restoring to original conditions, testing etc. complete. (Specials at junction of lateral pipe and and vertical stack must have access door for inspection. Air ventilation pipes including cowl shall be paid under this item)</p> <p>Complete all as directed by EIC.</p> <p>Note: Rate including connection with existing chambers and making good including plastering etc.</p> <p>75 mm dia (Min.wall thickness 1.80 mm)</p>	item65	60.00	Mtr		0.00	INR Zero Only

66	Supply, Laying and Fixing in position under floor, against wall in chases PVC SWR Drainage pipes and specials, rubber rings conforming to Type "B" of IS:13592 approved make as per manufacturers specification including cutting the pipes to required lengths, necessary excavation, converter if requires for connection to floor traps, chasing and restoring to original conditions, testing etc. complete. (Specials at junction of lateral pipe and and vertical stack must have access door for inspection. Air ventilation pipes including cowl shall be paid under this item) Complete all as directed by EIC. Note: Rate including connection with existing chambers and making good including plastering etc. 110 mm dia (Min.wall thickness 2.20mm)	item66	50.00	Mtr		0.00	INR Zero Only
67	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : 100 mm inlet and 100 mm outlet - Sand cast iron S&S as per IS: 3989	item67	6.00	No.s		0.00	INR Zero Only
68	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : 100 mm inlet and 75 mm outlet - Sand cast iron S&S as per IS: 3989	item68	8.00	No.s		0.00	INR Zero Only
69	Providing and fixing stainless steel heavy approved quality perforated jali 150x150 on floor trap including cutting of floor if required, fixing in cement punning, cleaning etc as complete as directed by Engineer in charge	item69	14.00	No.s		0.00	INR Zero Only
70	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 150x100 mm size P type -With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	item70	8.00	No.s		0.00	INR Zero Only
71	Providing and fixing Gun metal flush valve (Half turn) with Knob / hand wheel of approved quality (screwed end) It should be provided with two sets of GI /CPVC flange, nipple on both side, bolts, washers, best quality gasket. : 25 mm nominal bore	item71	2.00	No.s		0.00	INR Zero Only
72	Providing and fixing Gun metal flush valve (Half turn) with Knob / hand wheel of approved quality (screwed end.) It should be provided with two sets of GI /CPVC flange, nipple on both side, bolts, washers, best quality gasket. : 40 mm nominal bore	item72	2.00	No.s		0.00	INR Zero Only
73	Providing and fixing Gun metal flush valve (Half turn) with Knob / hand wheel of approved quality (screwed end.) It should be provided with two sets of GI /CPVC flange, nipple on both side, bolts, washers, best quality gasket. : 50 mm nominal bore	item73	4.00	No.s		0.00	INR Zero Only

74	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc.</p> <p>Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : for fixed portion</p> <p>Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)</p>	item74	125.00	Kgs		0.00	INR Zero Only
75	<p>.-Do- as per irtem above - For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)</p>	item75	125.00	Kgs		0.00	INR Zero Only
76	<p>Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)</p>	item76	1.00	Sqm		0.00	INR Zero Only
77	<p>Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With frosted glass panes of 4 mm thickness (weight not less than 10.00 kg/sqm)</p>	item77	3.00	Sqm		0.00	INR Zero Only
78	<p>Supplying and fixing wired glass of 6mm thick with good glazing quality to be fixed in doors / windows / ventilators, frames, including providing and fixing heavy duty aluminium beading of size 10 x 10mm channel, including cutting, fixing in Aluminium frames complete cost of beading, screws, necessary fittings, putty, but excluding cost of frames. (The cost of frames & beading will be paid separately elsewhere as an item) all as per specifications and as directed by EIC.</p>	item78	5.00	Sqm		0.00	INR Zero Only

79	Providing and fixing compact sheet of 5 mm thickness and approved shade of Make inside wooden partition / door etc; complete all as per approved drawing, colour, design & direction by Engineer-in-charge. Using available aluminium glazing clips or triangular beading including screws etc., The finished size of the panel shall be measured and paid. The cut edges of the compact sheet shall be provided with masking tape.	item79	13.00	Sqm		0.00	INR Zero Only
80	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	item80	4.00	No.s		0.00	INR Zero Only
81	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 100X58X1.90 mm	item81	40.00	No.s		0.00	INR Zero Only
82	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	item82	20.00	No.s		0.00	INR Zero Only
83	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	item83	20.00	No.s		0.00	INR Zero Only
84	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture 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 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. 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 : 3 mm thick Note: APP membrane to be apply over GI water supply line (conceal / under ground / open)	item84	20.00	Sqm		0.00	INR Zero Only
85	Providing and fixing in position CP Brass DOUBLE COAT HOOK (Heavy quality) with CP Brass Screws complete at all heights and directed by Engineer In charge.	item85	6.00	No.s		0.00	INR Zero Only

86	Providing and fixing G.I. Union (heavy quality) in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 40 mm nominal bore	item86	4.00	No.s		0.00	INR Zero Only
87	Providing and fixing G.I. Union (heavy quality) in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 50 mm nominal bore	item87	6.00	No.s		0.00	INR Zero Only
88	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve / Wheel valve, RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), steel reinforcement, shuttering and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks of class designation 3.5	item88	2.00	No.s		0.00	INR Zero Only
89	Supplying and fixing C.I. cover without frame for manholes : of Required size and shape shall be fixed in CM 1:3	item89	250.00	Kgs		0.00	INR Zero Only
90	Making Connection with 50mm dia or any other dia existing G.I. line, with new line of 50/40/25 mm dia of GI pipe including the providing of required fittings, threading if required with all necessary tools and tackles including all specials, threading in existing GI line etc. at all heights/levels/floor/terrace all complete as specified or as directed by the Engineer-In-Charge. Note: The Job is also to include excavation for finding under ground existing water supply line in particular area required for making connection & refixing the same after completion of work.	item90	2.00	Per Connection		0.00	INR Zero Only
91	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	item91	4.00	Per Connection		0.00	INR Zero Only

92	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p> <p>GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece</p>	item92	16.00	Sqm		0.00	INR Zero Only
93	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge 50mm average thickness	item93	5.00	Sqm		0.00	INR Zero Only
94	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, all complete as per direction of Engineer-In-Charge. Bars upto 12 mm diameter	item94	50.00	Rmt		0.00	INR Zero Only
95	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	item95	5.00	Sqm		0.00	INR Zero Only

96	Providing and fixing GI hexagonal chicken wire mesh of size 12mm x26g at the junction of dissimilar surfaces of brick masonry wall and RCC	item96	60.00	Sqm		0.00	INR Zero Only
97	Core cutting using tools for making hole of 75 mm dia for in wall with cladding, plaster, brick masonry etc - up to 450 mm width including anchor fastners, hand operated machine etc	item97	4.00	Per Hole		0.00	INR Zero Only
98	Core cutting using tools for making hole of 100 mm dia for in wall with cladding, plaster, brick masonry etc - up to 450 mm width including anchor fastners, hand operated machine etc	item98	4.00	Per Hole		0.00	INR Zero Only
99	Core cutting using tools for making hole of 150 mm dia for in wall with cladding, plaster, brick masonry etc - up to 450 mm width including anchor fastners, hand operated machine etc	item99	4.00	Per Hole		0.00	INR Zero Only
100	Providing and fixing silicon sealant at the joint of aluminum and plaster of size 5 mm x 5 mm in triangle shape to make the surface water leakage proof at periphery of window from inside and outside both etc., as directed by EIC.	item100	125.00	Rmt		0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words	INR Zero Only						