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Tender Inviting Authority: Dean (Admin)

Name of Work: Renovation and Repair related Miscellaneous Civil works for Hostel Blocks (H1, H2, H3), MSH, Student Facility, Guest House and other buildings at IPR Campus, Bhat, Gandhinagar-382428

Contract No: IPR/TN/CIVIL/02/2024

Name of the Bidder/ Bidding Firm / Company :	
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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:-

a) 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. All the items are including scaffolding, curing, for all leads and lifts etc. 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. All respective items should be as per the approved make / brands / list attached in Tender document.

b) No debris shall be left over during the repair works under each item on any day. An area for 'Debris bins' will be identified on the request of contractor for collection of debris generated on day to day basis. The Debris from debris bin shall be cleared every month. The contractor must maintain adequate number of wheel borrows all the time for shifting the debris to Debris bin. If the debris lies around the building for more than 7 days, penalty @ Rs. 100/- per day shall be levied.

c) Disposal of debris, dismantled or waste material to be clear 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. Payment of the same will be done in respective item. Permission to transport and dispose debris outside IPR campus shall be obtained by Contractor.

d) Wherever material are replaced with new one, quoted rate includes removing existing one and depositing the serviceable material at departmental store and disposing off debris outside campus.

e) Contractor has to abide by the "Construction & Demolition" work management plan as approved by IPR, AMC & any other regulations issued by the statutory authorities in the matter from time to time & agency has to deposit Bank Gurantee/ deposit as required.

f). Contractor shall take contractor's all risk insurance policy in respect of entire scope of work for entire period of contract and submit copy of the same before commencement of the work.

g). Contractor shall take care of existing service lines and other department properties while carrying out job & if any damage is done agency shall get it repair on his own cost.

h). Contractor has to make his own arrangements for regulating the traffic on the surrounding roads by putting up necessary Road Sign boards for Diversion, Men at Work, Danger, Work in Progress, Diversions/ change of directions etc at his own cost during execution of work as directed by the Department.

i). The contractor will be required to pay the wages to the workers employed by him on work at the rates per month per labour as per minimum wages as amended from time to time in force of minimum wages Act 1948 and as per provisions in contract conditions.

j) For supply items, materials to be supplied as and when required and as instructed by engineer in charge.

k) Contractor shall provide suitable Personal protective Equipment (PPE) to all its workmen and Also follow safety regulations while working at sites.

l) The contractor must take full precautions that original brick work is not damaged while dismantling of plaster / tiles or stone ladding. Incase of any damage the same shall be made good with 26g chicken wire mesh at his own cost. No separate payment for any additional thickness of plaster if any will be made. Contractor must visit site and acquaint himself with the condition of building.

m) The contractor shall provide daily report stating the nature of work done to the Engineer-in-charge or to his authorized representative daily in the format. Measurement of work done will be taken jointly and record in the registers on daily basis / weekly basis or after completion of work and signed by contractor and IPR official.

n) This work consist of repairing and renovation of three hostel blocks, married hostel, student facility building, guest house, under ground water tank building, electrical panel rooms, general areas and other related works inside campus. Contractor will be allowed to work for one hostel block at a time and some other area of different buildings. He will be allowed to start the work at other hostel block after completion and handing over of earlier block. There will be mutual understanding during tenure of contract i.e. up to completion of scope of work. Contractor must visit site and acquaint himself with the sequence of work to be carried out and condition of buildings.

o) Anti termite chemical and treatment - 1. Insecticides/Pesticides/Chemicals etc to be used for controlling of pest should be of public health grade duly approved as such: i) Safe for human beings. ii) Eco friendly. iii) Approved by World Health Organization/Govt. of India/other competent Govt. Body/Organization in safety as well as effectiveness. 2. The contractor shall be responsible for control of pest which will be include all types of Insects including termite, white ants, mosquito, seasonal insects, beetles, rodent, serpents, weeds etc. 3. The firm should have professional trained personnel to carry out the pesticide treatment. 4. The contractor shall take all safety precautions. In connection with pest control works as per Standard Government guidelines with due regards to chemical and fire hazard and they shall be held responsible and liable for any laxity in this regard. 5. The firm should follow the directives of Govt. health authorities/WHO for the pest control treatments. 6. The materials/chemicals used and

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
SI. 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 - item to be applicable in urban areas having directions for restricted hours for movement / plying of load carrying motor vehicle of 3.5 cum or more. Notes :1) Voids @ 20% for solids and 50% for rock shall be deduced from fully loaded truck measurement to arrive at the net quantity for payment in case of direct measurement is not possible. 2) The cost is inclusive of necessary permission from statutory authorities for dumping the debris/excess earth outside department premises.	item1	80.00	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. All kinds of soil	item2	45.00	Cum		0.00	INR Zero Only
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	item3	25.00	Cum		0.00	INR Zero Only
4	Supplying and filling in plinth with sand under floors, including watering, ramming consolidating and dressing complete.	item4	4.00	Cum		0.00	INR Zero Only
5	Supplying chemical emulsion in sealed containers including delivery as specified Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	item5	1064.00	ltr		0.00	INR Zero Only
6	Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	item6	3600.00	Rmt		0.00	INR Zero Only
7	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment of existing floor or joint of floor and skirting using chemical emulsion @ one litre per hole at 300 mm interval including 12 mm drilling holes and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) with matching colour pigment to the full depth of the hole : With Chlorpyrifos/Lindane E.C. 20% with 1% concentration.	item7	4000.00	Rmt		0.00	INR Zero Only
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	item8	12.00	Cum		0.00	INR Zero Only
9	Centering and shuttering including strutting, propping etc. and removal of form work for : Retaining walls, RCC Pathway, RCC coping, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	item9	135.00	Sqm		0.00	INR Zero Only

10	Extra for addition of synthetic Polyester triangular fibre of length 12mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/ RCC/Flooring/water retaining structures by using 125gms of synthetic Polyester triangular fibre for 50 g cement used as per directions of Engineer-in-Charge.	item10	25.00	Per bag of 50 kg of cement		0.00	INR Zero Only
11	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	item11	33.00	Cum		0.00	INR Zero Only
12	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	item12	3.00	Cum		0.00	INR Zero Only
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	item13	2700.00	Kg		0.00	INR Zero Only
14	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.	item14	10.00	Cum		0.00	INR Zero Only
15	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) superstructure above plinth level up to floor V level in cement mortar 1:6. Price includes fixing of chair bracket/rag bolt into masonry Complete all as directed by EIC.	item15	2.00	Cum		0.00	INR Zero Only

16	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.	item16	10.00	Sqm		0.00	INR Zero Only
17	Brick work with common burnt clay modular bricks of class designation 3.5 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand). From ground level upto plinth level	item17	7.00	Cum		0.00	INR Zero Only
18	Repairs to the existing doors frame of bath, w.c., bed, door etc. by replacing part of the frame with 2nd class teak wood at site of work by: i) Cutting of the damaged/ decayed portion of the door frame without disturbing/ removing of the existing frame. ii) Providing wood with 2nd class teak wood as per the existing frame for repairing of the damaged/ decayed portion of the frame including making lap joints for jointing the new wood with old wood work by fixing necessary screws and synthetic adhesive etc. complete. iii) Fixing the repaired door frame in position with embedding the frame upto 50mm depth in the floor and fixing coach screws to the wall including breaking of the floor for making pocket, applying two coats of bituminous paint to the surfaces of frames in contact with masonry/ concrete, repairing floor with P.C.C 1:2:4, finishing including two coats of synthetic enamel paint over one coat of primer & disposing off debris out side colony etc. complete all as directed by the Engineer-in-Charge. Note- Shape and size of frame should match with existing frame. Only damaged portion out of entire frame will be replaced. Cutting and removing of damaged part has to be removed without damage existing floor and wall. Contractor has to consider cost of same in quoted item rate. No extra payment shall be given	item18	1.20	Cum		0.00	INR Zero Only

19	<p>Repairs to the existing doors frame of bath, w.c., bed, door etc. by replacing part of the frame with 2nd class teak wood (wood supplied by Institute free of cost) at site of work by:</p> <p>i) Cutting of the damaged/ decayed portion of the door frame without disturbing/ removing of the existing frame.</p> <p>ii) Using wood supplied by Institute including minor repairs / cutting as per the existing frame for repairing of the damaged/ decayed portion of the frame including making lap joints for jointing the new wood with old wood work by fixing necessary screws and synthetic adhesive etc. complete.</p> <p>iii) Fixing the repaired door frame piece in position with embedding the frame upto 50mm depth in the floor and fixing coach screws to the wall including breaking of the floor for making pocket, applying two coats of bituminous paint to the surfaces of frames in contact with masonry/ concrete, repairing floor with P.C.C 1:2:4, finishing including two coats of synthetic enamel paint over one coat of primer & disposing off debris out side colony etc. complete all as directed by the Engineer-in-Charge. Note- Shape and size of frame should match with existing frame. Only damaged portion out of entire frame will be replaced. Cutting and removing of damaged part has to be removed without damage existing floor and wall. Contractor has to consider cost of same in quoted item rate. No extra payment shall be given</p>	item19	0.30	Cum		0.00	INR Zero Only
20	<p>Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws Note - Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked and Stainless steel screws 40 mm</p>	item20	30.00	Sqm		0.00	INR Zero Only
21	<p>Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters / window louvers (over all area of door shutter / individual louvers to be measured).</p>	item21	40.00	Sqm		0.00	INR Zero Only
22	<p>Providing and fixing of 4 mm thick best quality Natural Teak Veneers decorative sheet of approved brand / approved colour, pattern and design conforming to I.S. 1328, fixing at old existing furniture using adhesive fevicol - SH or equivalent, with approved joint and pattern, should be specially treated to be powder and termite/Borer proof, removing of damaged veneer, preparing surface to received new veneer for adhesion including wastage if any.</p>	item22	75.00	Sqm		0.00	INR Zero Only
23	<p>Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete including removing of old hinge: 100X58X1.90 mm</p>	item23	20.00	No.s		0.00	INR Zero Only

24	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete including removing of old hinge : 50X37X1.50 mm	item24	260.00	No.s		0.00	INR Zero Only
25	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.	item25	5.00	No.s		0.00	INR Zero Only
26	Providing and fixing pair of stainless steel matt finish 22 mm diameter round pipe pair of handles, SS key hole pin cylinder, pin cylinder brass lock, lock cap, pin cylinder key and knob 70 mm stainless steel - full set of approved quality with necessary screws etc. complete. The shape and size to match with old available lock and SS handles etc from "EPPW" (The Electroplating & Polishing Works, ahmedabad), "Hafele" or equivalent	item26	10.00	No.s		0.00	INR Zero Only
27	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete-Twin rubber stopper	item27	10.00	No.s		0.00	INR Zero Only
28	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality 1.0 mm thick	item28	750.00	Sqm		0.00	INR Zero Only
29	Providing and fixing Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick with two Stainless steel SS grade 304, brackets / finial suitable for (curtain rod) 25 mm dia 1.20mm thick of approved design fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete : 25 mm dia	item29	50.00	Rmt		0.00	INR Zero Only
30	Taking out existing wooden door shutter, repair as per required, remove damaged veneer etc. and refixing of repaired door shutters to existing door frames after adhesion of laminated sheets, including replacement of hinges if required, removing of door lock, aldrops, tower bolts, door stopper etc and refixing of all removed fittings and fixtures after adhesion of laminated sheet, providing and fixing of required numbers of Stainless steel screws and pins of required sizes, all complete as per the direction of the Engineer-in-charge. (item of laminate sheet will be paid in the respecive item)	item30	180.00	Each		0.00	INR Zero Only
31	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. With 2nd class teak wood beading up to 12X12 mm (Full finished size)	item31	6.00	Sqm		0.00	INR Zero Only

32	Providing and fixing fly proof stainless steel grade 304 wire gauge, to Aluminum shutters using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. (Aluminum beading shall be paid in respective aluminum item)	item32	32.00	Sqm		0.00	INR Zero Only
33	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer- in-charge.	item33	12.00	Set		0.00	INR Zero Only
34	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame, concrete/ masonry, etc. as per direction of Engineer-in-charge. 10 x 120 mm	item34	100.00	Each		0.00	INR Zero Only
35	Providing, fabricating, assembling, hosting / erecting and fixing in position at all heights / all levels / all floors / all shapes and sizes with all leads and lifts structural steel works made from tubular sections as per IS 1161(round hollow sections) or box sections (square, rectangular hollow sections as per IS 4923), as per detailed drawing and design including cutting, wastage, welding, bending (shop at site), hoisting, drilling, fixing in position, bolting wherever necessary, in position welding of required lengths, griding, finishing edges, filling the welded spots with paint, grouting in the RCC members including priming all the sections with one coat of zinc based yellow primer including preparing the surface, Scaffolding, Required size of anchor etc., complete at any heights/levels all as per instructions, specifications and as directed by Engineer – in – Charge (only standard measurements will be paid) Note: <input type="checkbox"/> The fabrication work shall be confirm IS standard <input type="checkbox"/> The quoted rates should be inclusive of the all materials, labours, one coat of primer, welding rods for all structural sections, bolts, washers, Scaffolding (Wherever necessary) as per suit and site conditions with taken care of safety measures, Payment shall be made only for actual material fixed at site as per standard measurement (weights) only. Rolling margin and wastage shall not be paid.	item35	200.00	Kg		0.00	INR Zero Only

36	Providing, fabricating, assembling, hosting / erecting and fixing in position at all heights / all levels / all floors / all shapes and sizes with all leads and lifts structural steel works In stringers, treads, landings etc. of stair cases, angle, channel including use of chequered plate wherever required, all complete as per detailed drawing and design including cutting, wastage, welding, bending (shop at site), hoisting, drilling, fixing in position, bolting wherever necessary, in position welding of required lengths, griding, finishing edges, filling the welded spots with paint, grouting in the RCC members including priming all the sections with one coat of zinc based yellow primer including preparing the surface, Scaffolding, Required size of anchor etc., complete at any heights/levels all as per instructions, specifications and as directed by Engineer – in – Charge (only standard measurements will be paid)	item36	700.00	Kg		0.00	INR Zero Only
37	Providing and fixing 1st quality ceramic glazed wall tiles of required size conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer in-Charge, in skirting, isers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	item37	30.00	Sqm		0.00	INR Zero Only
38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm or required 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 bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete	item38	15.00	Sqm		0.00	INR Zero Only
39	Kota stone slab (polished or rough) flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	item39	100.00	Sqm		0.00	INR Zero Only
40	Kota stone for stair treads with 3 line anti skid grooves and nosing at all floors & levels using minimum 25 mm thick machine cut machine polished or rough kotah stone slabs laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including curing hand polishing.	item40	20.00	Sqm		0.00	INR Zero Only
41	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.	item41	25.00	per bag of 50 kg cement		0.00	INR Zero Only
42	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) Flush / Ruled/ Struck or weathered pointing	item42	40.00	Sqm		0.00	INR Zero Only

43	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/ litre Note:- For Internal wall only, rates includes scaffolding. Measurements will be done as per relevant IS Code. Complete all as directed by EIC	item43	9684.37	Sqm		0.00	INR Zero Only
44	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives. New /old work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm, including scrapping, sand papering and preparing the surface, complete in all respect as per the direction of Engineer-in-Charge. Note:- Rates includes scaffolding, surface preparation, crack opening and filling with approved filler material (filling cracks - SBR polymer with cement as per manufacturers specification). The paint coefficient will be 1.00 irrespective of applying on plain / sand face plaster / brick surface. No extra measurement will be paid for painting on rough or sand face plaster or brick surface with groove. Complete all as directed by EIC	item44	500.00	Sqm		0.00	INR Zero Only
45	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new /old work over an under coat of suitable shade with ordinary paint / wood primer (on wood surface) / zinc based primer (on metal surface) of approved brand and manufacture Note:-Paint will be applied on steel and wood work, Rates includes scaffolding, oil based putty on wood work, removing of paint that is soft, blistered, loose or flanking & cleaning old surface, preparing the surface to receive paint including filling cracks and creaves with Putty or other approved filler materials. The surface area of MS members (roof truss, purlin, girders etc) and door / window frame will be measured and paid. However measurements of fully treated doors and windows will be taken as per relevant IS code. Complete all as directed by EIC (1) Synthitic enamel Paint of approved brand confirming to IS 2932 (2) Zinc based yellow Primer on MS and oil base primer on wood work (3) Putty suitable to Mild steel members of approved brand (4) Putty on wood work - oil base putty	item45	200.00	Sqm		0.00	INR Zero Only
46	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work Note : Measurement will be taken in Sqm of the treated/painted surface area.	item46	20.00	Sqm		0.00	INR Zero Only
47	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : : One or more coats on old work including touchup if any Note : Measurement will be taken in Sqm of the treated/painted surface area.	item47	300.00	Sqm		0.00	INR Zero Only

48	<p>Polishing in high gloss/matt finish melamine clear polish on old/new wood work in required color/ wooden shade texture with following process in the sequence as detailed below including preparing the old polished surface to received new polishing / proper bonding, protection of surrounding surface using appropriate means:</p> <p>1. The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180 nos.</p> <p>2. Applying two coats of sealer with spray gun and allowing sufficient drying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs.</p> <p>3. On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface further smooth after this wet rubbing, then surface is applied with special grade melamine fillers to fill all the small and big holes/grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs.</p> <p>4. On this, 1st coat of melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion. This 1st coat is allowed to dry for 24 hrs then this dry surface is again fine wet rubbed smooth, which is further allowed to dry for 12 hrs.</p> <p>The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete as per direction of Engineer-in-Charge. (Final coat to be done in 1 or 2 layers without gap of time.) Treated surface area shall be measured for payment.</p>	item48	1800.00	Sqm		0.00	INR Zero Only
49	<p>Lacquer polishing :</p> <p>Two or more coats on old/new works including a coat of wood filler including preparing the old polished surface to received polishing / proper bonding, protection of surrounding surface using appropriate means, minor repairing if any. Treated surface area shall be measured for payment. Application steps will be followed as per above item of melamine polish, however manual operation will be done instead spray gun. (Lacquer polish, thinner etc from "Taralac" or equivalent).</p>	item49	2300.00	Sqm		0.00	INR Zero Only
50	<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>	item50	9610.00	Sqm		0.00	INR Zero Only
51	<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>	item51	9610.00	Sqm		0.00	INR Zero Only

52	Removing dry or oil bound distemper, water proofing cement paint, lime wash and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. 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.	item52	9550.00	Sqm		0.00	INR Zero Only
53	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	item53	50.00	Sqm		0.00	INR Zero Only
54	Renewing glass panes, with wooden fillets wherever necessary: Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	item54	5.00	Sqm		0.00	INR Zero Only
55	Supplying and fixing new wooden fillets wherever necessary: 2nd class teak wood fillets (of required size)	item55	100.00	Rmt		0.00	INR Zero Only
56	Fixing old glass panes with wooden fillets (excluding cost of fillets)	item56	3.00	Sqm		0.00	INR Zero Only
57	Providing and fixing 5 mm thick best quality MIRROR of required shape and size as per site requirement with Rawl plug, CP Brass Screws of required size, Second class teak wood moulded frame of size 35 mm x 25 mm (finished) of approved quality, 12 mm thick water proof plywood of approved make 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	10.00	Sqm		0.00	INR Zero Only
58	Providing and fixing 5 mm thick best quality wire glass of required shape and size as per site requirement, including removing of existing wire glass, complete in all respect as per the direction of Engineer-in-Charge.	item58	5.00	Sqm		0.00	INR Zero Only
59	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)	item59	2.00	Cum		0.00	INR Zero Only
60	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	item60	3.00	Cum		0.00	INR Zero Only
61	Dismantling Existing tile works in floors/wall and roofs laid in cement including removing of cement mortar, cement punning and all materail available above plaster, if required using cutter to avoid damage to existing plaster and masonry and Disposing of the debris outside campus for thickness of tiles & cement punning 10mm to 25mm. (Including using cutter machine to avoid damage to adjoining tiles)	item61	45.00	Sqm		0.00	INR Zero Only

62	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead	item62	110.00	Sqm		0.00	INR Zero Only
63	Demolishing brick tile/CC paver block covering in terracing/pathway including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	item63	4.00	Sqm		0.00	INR Zero Only
64	Dismantling of old wash basin with CI bracket support, pillar cock, waste coupling, bottle trap, connection pipe, waste pipe and other connections including disposal of un-useful material within 250m lead and submission of useful materials to store or as directed by EIC.	item64	36.00	Each		0.00	INR Zero Only
65	Dismantling of old flushing tank with bracket support, connection pipe, waste pipe and other connections including disposal of un-useful material within 250m lead and submission of useful materials to store or as directed by EIC.	item65	20.00	Each		0.00	INR Zero Only
66	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	item66	50.00	Sqm		0.00	INR Zero Only
67	Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50mtrs lead.	item67	7.00	Cum		0.00	INR Zero Only
68	Providing and fixing PVC flush tank complete Internal Kit (1 Syphon set, 1 Ball Cock set, 1 Button Lever set) is a universal product that fits most of the standard cisterns/flush tanks. The kit consists of a Syphon set the controls the outflow of the water, a ball cock set (adjustable) that controls the water inflow and filling of the tank, a lever set that controls the release of water. Made from heavy duty plastic etc. and it suite be suitable for old existing PVC flush tanks complete as per manufactures specification and as directed by the Engineer-in-Charge.	item68	15.00	No.s		0.00	INR Zero Only
69	Providing and fixing wash basin (Jaquare-CNS-WHT-801with rag bolts) with heavy C.I. brackets, 15 mm C.P. brass pillar taps Auto closing system Press matic type (Jaquare - PRS-CHR-031), 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)	item69	25.00	No.s		0.00	INR Zero Only
70	Extra for using coloured wahsbasin instead of white washbasin	item70	40.00	No.		0.00	INR Zero Only
71	Providing & fixing 32 mm/ 40 mm dia heavy quality C.P. brass waste coupling with plug & chain, including removing the existing & depositing to deptt stores etc. complete all as per specifications and as directed by the Engineer-in-Charge.	item71	10.00	No.s		0.00	INR Zero Only
72	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. (Jaquare - Artize - ALA-509573)	item72	20.00	No.s		0.00	INR Zero Only

73	Providing and fixing hose pipe for health faucet with minimum 1 metre SS braided flexible rubber hose pipe of approved make and quality for water pressure 1-3 bar. Complete all as directed by EIC. (suitable for Jaquare - Artize - ALA-509573)	item73	20.00	No.s		0.00	INR Zero Only
74	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete. (Hindware-Sleek fresh ISI) 10 litre capacity - White	item74	20.00	No.s		0.00	INR Zero Only
75	Providing and fixing solid plastic seat with lid for pedestal type / wall hung W.C. pan complete : White solid plastic seat with lid	item75	20.00	No.s		0.00	INR Zero Only
76	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge	item76	25.00	No.s		0.00	INR Zero Only
77	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : Flat back wash basin of size 550x400 mm (Jaquare-CNS-WHT-801with rag bolts)	item77	15.00	No.s		0.00	INR Zero Only
78	Providing and fixing P.V.C. waste pipe (required length) for sink or wash basin or urinal including P.V.C. waste fittings complete. Flexible pipe - 40 mm dia	item78	10.00	No.s		0.00	INR Zero Only
79	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.	item79	5.00	No.s		0.00	INR Zero Only
80	Providing and fixing white vitreous china extended wall mounting water closet of size 550x370x380 mm (Approx.) of approved shape including nuts, bolts, pan connector of required size and gasket etc complete and matching with existing old fixtures, removing of old damaged WC, disposing as directed.	item80	15.00	No.s		0.00	INR Zero Only
81	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter	item81	50.00	No.s		0.00	INR Zero Only
82	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931- 15mm	item82	10.00	No.s		0.00	INR Zero Only
83	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	item83	50.00	No.s		0.00	INR Zero Only
84	Providing and fixing stainless steel (SS-304) heavy approved quality perforated floor drain cover with cockroach trap 150x150 of required size and design including cutting of floor if required, fixing in cement punning, cleaning etc as complete as directed by Engineer in charge	item84	192.00	No.s		0.00	INR Zero Only
85	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	item85	5.00	No.s		0.00	INR Zero Only
86	Providing and fixing uplasticised braided PVC connection pipe with brass unions-45 cm length 15 mm nominal bore	item86	10.00	No.s		0.00	INR Zero Only
87	Providing and fixing uplasticised braided PVC connection pipe with brass unions-60 cm length 15 mm nominal bore	item87	10.00	No.s		0.00	INR Zero Only

88	Labour charges for Servicing of CP fittings (bib tap, pillar tap, wall mixer set, angle cock, bottle trap, shower etc) including removing, cleaning, greasing, servicing, refixing of the same and put the same in operation condition, including supplying and fixing required teflon, greese, replacing of damaged spindle, washer, nuts etc (spindle, washer supplied by institute free of cost)	item88	600.00	No.s		0.00	INR Zero Only
89	Supplying only - 'JAQUAR' - Continental Series - Spindle with Rubber Washer suitable for bib tap, pillar tap, angle cock etc. (Code No : ZCA - 001). Any other Jaquar sppindle may be used if mentioned product code is not compatible with existing bib tap, pillar tap, angle cock.	item89	50.00	No.s		0.00	INR Zero Only
90	Supplying only - 'JAQUAR' - Continental Series - AERATOR ASSY.24MM(ZMS 500A/B/C)SHORT including wahser, jali and housing suitable for water taps etc. (Code No : ZMS-500).	item90	50.00	No.s		0.00	INR Zero Only
91	Supplying only - 'JAQUAR' - Continental Series - LEG-WM/SM-5273-FLORA-ALL-REGULAR suitable for wall mixer etc. (Code No : ZLF-004).	item91	20.00	No.s		0.00	INR Zero Only
92	Supplying only - 'JAQUAR' - Continental Series - WASHER-WM/SMWM, 5273-FLORA-ALL REGULAR(ZL) suitable for wall mixer etc. (Code No : ZLF-008).	item92	328.00	No.s		0.00	INR Zero Only
93	Supplying only - 'JAQUAR' - suitable for Continental Series - a. HANDLE-REGULAR-037-CONTINENTAL-HOT, b. SCREW SET-ALL RANGE-CONTI/QUEENS, c. TIKKI-REGULAR-037-CONTINENTAL suitable for wall mixer etc. (Code No : ZKB-001H, ZKB-045 and ZKB-002).	item93	20.00	No.s		0.00	INR Zero Only
94	Supplying only - 'JAQUAR' - suitable for Continental Series - WASHER-WM-5273FLORA-ALL-REGULAR suitable for wall mixer etc. (Code No : ZMS-207).	item94	164.00	No.s		0.00	INR Zero Only
95	Supplying only - 'JAQUAR' - suitable for Continental Series - AERATOR ASSY.28MM(ZMS-002/175/324) including wahser, jali and housing suitable for wall mixer etc. (Code No : ZMS-070).	item95	30.00	No.s		0.00	INR Zero Only
96	Supplying only - 'JAQUAR' - suitable for Continental Series - washer 19x4.8x4.2(ZCA-001) washer of part code ZCR-CHR005 for taps etc.	item96	400.00	No.s		0.00	INR Zero Only
97	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 15 mm dia nominal bore	item97	50.00	Mtr		0.00	INR Zero Only
98	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 20 mm dia nominal bore	item98	50.00	Mtr		0.00	INR Zero Only
99	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 25 mm dia nominal bore	item99	25.00	Mtr		0.00	INR Zero Only
100	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore	item100	12.00	Each		0.00	INR Zero Only
101	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 20 mm nominal bore	item101	24.00	Each		0.00	INR Zero Only
102	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 50 mm nominal bore	item102	5.00	Each		0.00	INR Zero Only
103	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 80 mm nominal bore	item103	2.00	Each		0.00	INR Zero Only

104	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work): 15 mm nominal bore	item104	10.00	Each		0.00	INR Zero Only
105	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work): 20 mm nominal bore	item105	24.00	Each		0.00	INR Zero Only
106	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work): 25 mm nominal bore	item106	12.00	Each		0.00	INR Zero Only
107	Providing and fixing PTMT Ball cock compatible with existing cistern of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball. 15 mm nominal bore, 105 mm long, weighing not less than 138 gms	item107	10.00	Each		0.00	INR Zero Only
108	Supplying Ductile Iron Manhole cover of approved size, Grade, Load bearing capacity, shape etc. of required weight. (Payment for Fixing of cover / concrete / plaster etc. will be done under respective item).	item108	1200.00	kgs		0.00	INR Zero Only
109	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. 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) : NOTE: All fitting works shall be carried out as per I.S specifications including necessary rivets, screws, lugs, scaffolding, etc., complete all generally as per drawings. The sizes of the components should confirm as per details in drawings. : For fixed portion, Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). (Aluminium beadings and glazing clips measured under this item only).	item109	95.00	kgs		0.00	INR Zero Only
110	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in charge. With stainless steel cover plate minimum 1.25 mm thickness	item110	2.00	Each		0.00	INR Zero Only

111	Providing and laying China mosaic treatment over cement mortar / RCC roof including Dismantling, Scraping, removing and cleaning the existing treatment (china mosaic / plaster) by chiseling or other means, including cleaning with wire brushes and coir brooms, disposal of unserviceable material out side Institute's campus, including finishing the surfaces to receive new treatment, Applying of a coat of cement slurry at rate of 2.75 kg/Sqm mixed with water proofing compound is spread uniformly over the prepared surface, back coat of 30 mm thick cement mortar 1:4 including using approved water proofing compound like as per manufacturers specifications and broken pieces of white glazed tiles (6mm thick) set on 5mm thick neat coat of cement slurry of consistency of honey and top finished with white cement to required levels & slopes on barrel roof, making groove of 6 mm x 6 mm size in top finish in required panels, curing, scaffolding, tools and tackles, all as per specifications at all leads and lifts and at any height and space in the terrace and as directed by the Engineer – in – charge.	item111	60.00	Sqm		0.00	INR Zero Only
112	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	item112	100.00	Sqm		0.00	INR Zero Only
113	Providing & Applying polymer modified, flexible cementitious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementitious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementitious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge.	item113	1500.00	Sqm		0.00	INR Zero Only
114	Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	item114	500.00	Sqm		0.00	INR Zero Only

115	<p>Providing and applying two or more coat of silicon based water repellent coating on dholpur/brick with filling of Horizontal and vertical joints with matching cement based colour pigment. Rate including scaffolding, filling the cracks and crevices with approved filler material, preparation of the surface, removing of algae from the surface etc.. so that surface becomes free from all debris, dirt, oil, grease, wax and all other contamination which could prevent penetration.etc. to improve penetration, scaffolding, apply second coat wet on wet. Complete as per manufacturer specification and as directed by EIC.</p> <p>NOTE: Required Paint coefficient has to be considered in the quoted rate. Hence separate coefficient will not be considered while measuring the area for painting and area will be measured flat. The paint coefficient will be 1.00 irrespective of applying on dholpur stone cladding / Brick /plaster/ sand face plaster surface etc. No extra will be paid for rough surface.</p> <p>(1) Coating - silicon based water repellent of approved brand (2) Filling cracks - SBR polymer with white cement including matching colour pigment as per manufacturers specification</p>	item115	12850.00	Sqm		0.00	INR Zero Only
116	<p>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</p> <p>50mm average thickness</p>	item116	100.00	Sqm		0.00	INR Zero Only
117	<p>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</p> <p>25mm average thickness</p>	item117	100.00	Sqm		0.00	INR Zero Only
118	<p>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.</p> <p>Bars up to 12 mm diameter</p>	item118	1500.00	Rmt		0.00	INR Zero Only
119	<p>Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.</p> <p>Upto and including 12mm dia</p>	item119	50.00	Per hole		0.00	INR Zero Only

120	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	item120	200.00	Sqm		0.00	INR Zero Only
121	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. 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). Plastering 25 mm average thickness in 2 layers.	item121	125.00	Sqm		0.00	INR Zero Only
122	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. 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). Plastering 50 mm average thickness in 3 layers.	item122	125.00	Sqm		0.00	INR Zero Only
123	Providing & Grouting of dowel tubes / Shear keys / Joints of precast members / old honeycomb concrete with M-60 grade cementitious grout (Non Shrink) of approved make by suitable means (Free flowing / pump),curing etc. Complete as per directions of Engineer-in-charge. (The payment shall be made on the basis of actual weight of approved grout injected.) Stirrer mixed cementitious grout (non shrink) of approved make in dowel tubes / Shear keys / Joints of old honeycomb concrete / precast members.	item123	100.00	Kg		0.00	INR Zero Only
124	Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density 100grams/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with building/scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work)	item124	1000.00	Sqm		0.00	INR Zero Only
125	Providing and fixing of 5 mm thick Compact sheet as per required for existing louver window repairing works as required, with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.	item125	10.00	Sqm		0.00	INR Zero Only

126	Providing and fixing aluminum louvered windows with required mechanism, shape to be match with existing louvers, anodizing etc including removing of old damaged louvered windows, required wool pile, rubber etc as per manufacturees specifications.	item126	5.00	Sqm		0.00	INR Zero Only
127	Providing and fixing GI hexagonal chicken wire mesh of size 12mm x26g at the junction of dissimilar surfaces of brick masonry wall and RCC	item127	100.00	Sqm		0.00	INR Zero Only
128	Supplying Polysulphide sealent in sealed (Pour grade / Gun grade) containers including delivery at site as specified.	item128	16.00	Kg		0.00	INR Zero Only
129	Supplying SBR polymer in sealed containers including delivery at site as specified.	item129	20.00	Kg		0.00	INR Zero Only
130	Supplying / Providing of Portland Cement (OPC-43 Grade)	item130	20.00	Bag		0.00	INR Zero Only
131	Supplying / Providing of fine sand	item131	15.00	Cum		0.00	INR Zero Only
132	Supplying / Providing of Nails -3/4"(2 kg),1"(2 kg),1 1/2"(3kg),2"(2kg),3"(1 kg)	item132	10.00	Kg		0.00	INR Zero Only
133	Supplying / Providing of following size GI Counter sunk screw-19mm-5 no (1 box=1000 nos)	item133	1.00	Box		0.00	INR Zero Only
134	Supplying / Providing of following size GI Counter sunk screw-25mm-6 no (1 box=1000 nos)	item134	1.00	Box		0.00	INR Zero Only
135	Supplying / Providing of following size GI Counter sunk screw-35 mm-8 no (1 box=100 nos)	item135	5.00	Box		0.00	INR Zero Only
136	Supplying / Providing of following size GI Counter sunk screw-50 mm-10 no (1 box=100 nos)	item136	2.00	Box		0.00	INR Zero Only
137	Supplying / Providing of following size GI Counter sunk screw-60 mm-10 no (1 box=100 nos)	item137	2.00	Box		0.00	INR Zero Only
138	Supplying / Providing of following size GI Counter sunk screw-75 mm-10 no (1 box=100 nos)	item138	2.00	Box		0.00	INR Zero Only
139	1 kg pack of white cement approved make	item139	40.00	Kg		0.00	INR Zero Only

140	<p>Carpenter (Skilled) for Repair and Maintenance work related to carpentry of office building, Laboratory and Hostel/Guest house at IPR and FCIPT Campus including Door and window hardwares repair/ replacement like door closures, door stopper, handle, hinges, aldrop, Tower bolt; glass works, Fits and installs window frames, doors, door frames, door hardware, interior and exterior trim using a carpenter's level, plumb bob etc, Shapes or cuts materials to specified measurements, using hand tools, machines, or power saws, Builds or repairs cabinets, box, Cupboard, Drawers, doors, frameworks, floors, or other wooden fixtures used in buildings, using woodworking machines, hand tools, or power tools; Sealing of door/windows with silicon/PU sealant/Aluminum sheet/GI sheet or any other sealing material so that water leaking can be stopped. Door closer and door stopper repair work, Removes damaged or defective parts or sections of structures and repair or replace, using hand tools, Inspects false ceiling, wall coverings, siding, glass, or woodwork to detect broken or damaged structures and repair of the same, applying of abro tape, removing of old sealants, applying of sealanmts, Take measurements and calculate the size and amount of material needed; Inspect places, Interact with users and understand his concern/problem, Keep records of assignments and produce detailed work reports, conduct repairs or maintenance as per users requirement, All other carpentry works as directed by IPR Engineer In Charge. Work to be done from 9AM to 5:30 PM . Tools and tackles i.e.. tape, framing square, Try square, saw, drill kit, hammer, heck saw, spanner set, etc. for carpentry work should always be available with carpenter. Note:- Any consumable material required will be provided by the institute, however tools and tackles should be available with them</p>	item140	60.00	Per Day		0.00	INR Zero Only
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141	Plumber (Skilled) for Repair and Maintenance work related to plumbing of office building, Laboratory and Hostel/Guest house at IPR and FCIPT Campus including maintenance of all existing toilet; Gardening water supply points, Drainage lines, Repair and Maintenance and operation of valves, Attending, Rectifying water leakage issues, non-functioning of any CP fittings, Water connection problems and restoring it at any time on emergency, Locate and mark the position of pipe installations, WC's, Urinals, Wash basin, CP fittings, other connections, passage holes, and fixtures in new structures, using measuring instruments such as rulers and levels and other plumbing instruments, Repair, Installation, Replacement and other related works of Rainwater drainage system available in the whole campus Measure, cut, thread, and bend pipe to required angle, , using hand and power tools or machines such as pipe cutters, pipe-threading machines, and pipe-bending machines; Install pipe assemblies, fittings, valves, appliances such as dishwashers and water heaters, and fixtures such as sinks and toilets, using hand and power tools, Repair works of water supply line, all existing water points, Making of new water points if required, Ensure smooth operation of water supply in Entire Campus, Cut openings in structures to accommodate pipes and pipe fittings using hand and power tools; replacing defective washers, replacing broken pipes; Repair of all CP fittings like pillar cock, bib cock, angle cock, Two way cock, health faucet, shower etc. available in Toilets, All other plumbing works as directed by IPR Engineer In Charge. Work to be done from 9AM to 5:30 PM .Tools and tackles i.e.. tape, wrenches, pliers, screw driver, Allen key set, chiesel, joint pliers, hammer bit, Angle grinder, drop forged, drill kit, hammer, spanner set, etc. For plumbing work should always be available with plumber. Note:- Any consumable material required will be provided by the institute, however tools and tackles should be available with them	item141	30.00	Per Day		0.00	INR Zero Only
142	Mason (Skilled) for Repair and Maintenance work related to mason of Hostel/Guest house at IPR Campus including minor repairs, plastering, crack repairing, masonry repairing, tiles grouting, floor repair, concrete repair, water proof repair, chambers repairs, All other mason works as directed by IPR Engineer In Charge. Work to be done from 9AM to 5:30 PM from Monday to friday. In case of emergency, Tools and tackles i.e.. tape, trowel, gutka, musterd, drop forged, etc. For Mason work should always be available with plumber. Note:- Any consumable material required will be provided by the institute, however tools and tackles should be available with them	item142	20.00	Per Day		0.00	INR Zero Only
143	Helper to carpenter (Semi-Skilled) to assist Carpenter. Work to be done from 9AM to 5:30 PM .	item143	60.00	Per Day		0.00	INR Zero Only
144	Helper to Plumber (Semi-Skilled) to assist plumber. Work to be done from 9AM to 5:30 PM	item144	30.00	Per Day		0.00	INR Zero Only

145	Unskilled labours helping Miscellaneous civil works including excavation, filling, cleaning, dismantling etc. Work to be done from 9AM to 5:30 PM.	item145	60.00	Per Day		0.00	INR Zero Only
146	20 mm thick average cement plaster on rough side of single or half brick/RCC wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand), roughing of surface/surface preparation should be done if required. Note: The Plater should be of single coat Mala finished.	item146	60.00	Sqm		0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only					