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Tender Inviting Authority: Dean (Admin)

Name of Work: Annual contract for Misc. maintenance and repair works in civil, plumbing and carpentry for office building, Laboratory & Hostel/Guest house at IPR and FCIPT Campus for 2 years

Contract No: IPR/TN/CIVIL/01/2024

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:-

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. a) The contractor shall arrange to provide the service on Saturdays, Sundays and other holidays including before or after office hours in case of emergency as required by Engineer- in- charge, failing which penal recovery shall be made, decision of Engineer - in - charge will be final.

b) All breakdown calls/ complaints received during normal working hours should be attended within 3-4 hours or, at the shortest possible time.

c) The contractor shall provide a uniform to all the regular workers showing his name as approved by the Engineer-in-charge. All the workers must wear the same while on duty.

d) The contractor shall provide daily report stating the nature of complaints/ work done to the Engineer-in-charge or to his authorized representative daily in the format.

e) The contractor shall provide & maintain duplicate book for receiving the job complaint order from Engineer- in- charge daily in the approved format. Job will be assigned on daily basis. Attendance sheet for regular workers will be maintained in approved format and joint measurement of executed work will be taken on weekly basis / after completion of work. Bill may be raised on monthly basis.

f) Each job is identified as following category based on its priority.

A – Normal - 3 working days

B – urgent - 1 working day

Penal recovery as under shall be made for delay in execution of work:

A – Normal - Rs 500.00/ day

B – urgent - Rs 750.00/ day

decision of Engineer- in- charge shall be final for deciding the job as A or B Category before allotting the job.

g) 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.

h) 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.

i) 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.

j) The agency 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 Guarantee/ deposit as required.

k). 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.

l). The Agency 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.

m). 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.

n).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.

o) Materials to be supplied as and when required and as instructed by engineer in charge.

p) All working staff shall report for work at IPR campuses, however, they may be sent to FCIPT Campus, Plot No. A/10/B, GIDC, Sector – 25, Gandhinagar – 382016 through IPR transportation (only on working days, for non working days contractor has to arrange their own transportation) for works at FCIPT campus.

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

r) The contractor must take full precautions that original brick work is not damaged while dismantling of plaster / tiles or stone ladding. In case 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.

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 - 1. 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. 2. Voids @20% for solids and 50% for rock shall be deducted from fully loaded truck measurement to arrive at the net quantity for payment in case of direct measurement is not possible. 3. The cost is inclusive of necessary permission from statutory authorities for dumping the debris/excess earth outside department premises	item1	150.00	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	100.00	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	100.00	Cum		0.00	INR Zero Only
4	Supplying and filling in plinth with sand under floors, including watering, ramming consolidating and dressing complete.	item4	15.00	Cum		0.00	INR Zero Only
5	Supplying chemical emulsion in sealed containers including delivery as specified Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	item5	100.00	ltr		0.00	INR Zero Only
6	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 Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	item6	500.00	Rmt		0.00	INR Zero Only
7	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	item7	200.00	Sqm		0.00	INR Zero Only
8	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.	item8	200.00	Rmt		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 20 mm nominal size derived from natural sources)	item9	5.00	Cum		0.00	INR Zero Only

10	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)	item10	5.00	Cum		0.00	INR Zero Only
11	Centering and shuttering including strutting, propping etc. and removal of form work for Foundations, footings, bases for columns etc.	item11	25.00	Sqm		0.00	INR Zero Only
12	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.	item12	50.00	Per bag of 50 kg of cement		0.00	INR Zero Only
13	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)	item13	5.00	Cum		0.00	INR Zero Only
14	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)	item14	2.00	Cum		0.00	INR Zero Only
15	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.	item15	100.00	Kg		0.00	INR Zero Only
16	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.	item16	4.00	Cum		0.00	INR Zero Only
17	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.	item17	2.00	Cum		0.00	INR Zero Only

18	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.	item18	10.00	Sqm		0.00	INR Zero Only
19	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.	item19	0.25	Cum		0.00	INR Zero Only
20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (PartI) 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 35 mm thick including Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked with Stainless steel screws 40 mm	item20	5.00	Sqm		0.00	INR Zero Only
21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (PartI) 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 Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked with Stainless steel screws 40 mm	item21	10.00	Sqm		0.00	INR Zero Only
22	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	item22	15.00	Sqm		0.00	INR Zero Only
23	Providing and fixing Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick with two Stainless steel SS grade 304, brackets suitable for (curtain rod) 25 mm dia 1.20mm thick fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete : 25 mm dia	item23	50.00	Rmt		0.00	INR Zero Only

24	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 100X58X1.90 mm	item24	20.00	No.s		0.00	INR Zero Only
25	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 75x47x1.80 mm	item25	20.00	No.s		0.00	INR Zero Only
26	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.	item26	15.00	No.s		0.00	INR Zero Only
27	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	item27	10.00	No.s		0.00	INR Zero Only
28	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	item28	10.00	No.s		0.00	INR Zero Only
29	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-200x10 mm	item29	10.00	No.s		0.00	INR Zero Only
30	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	item30	15.00	No.s		0.00	INR Zero Only
31	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	item31	50.00	No.s		0.00	INR Zero Only
32	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	item32	20.00	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 & fixing Godrej Cylindrical round lock Keyed (Classic or equivalent - Tubular lock) for door with SS parts and body with 6 levers with stainless steel 3 numbers of keys with chromium plated brass screws for left hand/right hand and for single leaf shutter of 30mm to 40 mm thickness with brass socket plate. Push button when pressed, won't allow anyone to enter from outside. The lock can operated with key from outside (Exact number for left, right and double shutter shall be ascertained based on site requirement. It shall be matching with existing old door locks). Cost also includes removing of old damaged lock and minor repairing of wooden shutter.	item34	10.00	Set		0.00	INR Zero Only

35	<p>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)</p> <p>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.</p>	item35	300.00	Kg		0.00	INR Zero Only
36	<p>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)</p>	item36	300.00	Kg		0.00	INR Zero Only
37	<p>40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush. (Rough or polished dholpur stone flooring)</p>	item37	25.00	Sqm		0.00	INR Zero Only
38	<p>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.</p> <p>Note: The shade & Size of the tiles shall be got approved by the EIC.</p>	item38	15.00	Sqm		0.00	INR Zero Only

39	Providing and laying Rectified Ceramic tile on wall/dadoing in desired pattern of approved premium quality of size up to 600x300 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 300 mm) shall be got approved by the EIC.	item39	15.00	Sqm		0.00	INR Zero Only
40	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	item40	20.00	Rmt		0.00	INR Zero Only
41	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	item41	25.00	Sqm		0.00	INR Zero Only
42	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.	item42	25.00	per bag of 50 kg cement		0.00	INR Zero Only
43	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof	item43	10.00	Sqm		0.00	INR Zero Only
44	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) Flush / Ruled/ Struck or weathered pointing	item44	15.00	Sqm		0.00	INR Zero Only
45	White washing with lime to give an even shade Old work (two or more coats)	item45	150.00	Sqm		0.00	INR Zero Only
46	Colour washing such as green, blue or buff to give an even shade : New work or old (two or more coats) with a base coat of white washing with lime	item46	200.00	Sqm		0.00	INR Zero Only
47	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	item47	500.00	Sqm		0.00	INR Zero Only

48	<p>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.</p> <p>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.</p> <p>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</p>	item48	500.00	Sqm		0.00	INR Zero Only
49	<p>Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :</p> <p>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</p> <p>Note:-Paint will be applied on steel and wood work, Rates includes scaffolding, oil based putty on wood work. The surface area of MS members (roof truss, purlin, girders etc) will be measured and paid. However measurements of doors and windows will be taken as per relevant IS code. Complete all as directed by EIC</p>	item49	100.00	Sqm		0.00	INR Zero Only
50	<p>Lacquer polishing :</p> <p>Two or more coats on new/old works including a coat of wood filler and <u>preparing the surface to receive coats of polishing.</u></p>	item50	10.00	Sqm		0.00	INR Zero Only
51	<p>Lacquer polishing :</p> <p>One or more coats on new/old works including a coat of wood filler and <u>preparing the surface to receive coats of polishing.</u></p>	item51	20.00	Sqm		0.00	INR Zero Only
52	<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>	item52	200.00	Sqm		0.00	INR Zero Only
53	<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>	item53	200.00	Sqm		0.00	INR Zero Only

54	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.	item54	650.00	Sqm		0.00	INR Zero Only
55	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer in-Charge. With cement mortar 1:4 (1 cement : 4 fine sand)	item55	25.00	Sqm		0.00	INR Zero Only
56	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	item56	15.00	Sqm		0.00	INR Zero Only
57	Renewing glass panes, with wooden fillets wherever necessary: Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	item57	15.00	Sqm		0.00	INR Zero Only
58	Supplying and fixing Heat strengthened, (Toughened) hard coated glass of temperable 6mm thick heat reflective glass of approved colour placed over anodised aluminium frame work for structural glazing work in fixed panels with suitable aluminium angle section to meet the same glass in line with spacer foam tape and applied with architectural grade silicone construction sealant (UV resistant) with requisite structural bite applied along the perimeter of each glass pane properly cured as per the sealant manufacture's specifications including removal of broken glass panes wherever necessary including scaffolding, disposing of broken glass pieces outside campus, stacking of useful glass as directed etc. - Heat strengthened, (Toughened) hard coat 6mm thick heat reflective glass for any heights, leads and lift. (Measurement will be taken for length and breadth of the fixed glass)	item58	7.00	Sqm		0.00	INR Zero Only
59	Supplying and fixing new wooden fillets wherever necessary: 2nd class teak wood fillets (of required size)	item59	150.00	Rmt		0.00	INR Zero Only
60	Renewal of old putty of glass panes (length)	item60	150.00	Rmt		0.00	INR Zero Only
61	Refixing old glass panes with putty and nails	item61	10.00	Sqm		0.00	INR Zero Only
62	Fixing old glass panes with wooden fillets (excluding cost of fillets)	item62	10.00	Sqm		0.00	INR Zero Only

63	<p>Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.</p> <p>Note: - This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done.</p>	item63	200.00	Sqm		0.00	INR Zero Only
64	<p>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</p>	item64	25.00	Sqm		0.00	INR Zero Only
65	<p>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)</p>	item65	3.00	Cum		0.00	INR Zero Only
66	<p>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.</p>	item66	2.00	Cum		0.00	INR Zero Only
67	<p>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.</p>	item67	5.00	No.s		0.00	INR Zero Only
68	<p>Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm</p>	item68	20.00	Sqm		0.00	INR Zero Only
69	<p>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.</p>	item69	25.00	Sqm		0.00	INR Zero Only
70	<p>Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50mtrs lead.</p>	item70	3.00	Cum		0.00	INR Zero Only

71	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge : Water bound macadam road	item71	10.00	Sqm		0.00	INR Zero Only
72	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge : Bitumen road	item72	10.00	Sqm		0.00	INR Zero Only
73	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment). Overhead informatory road signage	item73	5.00	Sqm		0.00	INR Zero Only
74	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	item74	200.00	Sqm		0.00	INR Zero Only
75	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan - Hindware - Slick - 20011) with seat and lid (HINDWARE standard white PE:H 500240), 10 litre low level white P.V.C. flushing cistern (Hindware-Sleek fresh ISI), 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	item75	3.00	No.s		0.00	INR Zero Only
76	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 that 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. complete as per manufactures specification and as directed by the Engineer-in-Charge.	item76	10.00	No.s		0.00	INR Zero Only

77	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)	item77	3.00	No.s		0.00	INR Zero Only
78	Providing & fixing 32 mm/ 40 mm dia heavy quality C.P. brass waste coupling with plug & chain, including removing the existing & depositing to depts stores etc. complete all as per specifications and as directed by the Engineer-in-Charge.	item78	10.00	No.s		0.00	INR Zero Only
79	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. (European type W.C. pan - Hindware - Slick - 20011)	item79	3.00	No.s		0.00	INR Zero Only
80	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)	item80	15.00	No.s		0.00	INR Zero Only
81	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)	item81	50.00	No.s		0.00	INR Zero Only
82	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	item82	5.00	No.s		0.00	INR Zero Only
83	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete : White solid plastic seat with lid	item83	10.00	No.s		0.00	INR Zero Only
84	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge	item84	10.00	No.s		0.00	INR Zero Only
85	Providing and fixing white vitreous china flat back urinal basin of 430x260x350 mm sizes respectively with all fitting and fixtures complete. (Jaquare - URS- WHT-13261)	item85	3.00	No.s		0.00	INR Zero Only
86	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)	item86	6.00	No.s		0.00	INR Zero Only
87	Providing and fixing P.V.C. waste pipe for sink or wash basin or urinal including P.V.C. waste fittings complete. Flexible pipe - 40 mm dia	item87	50.00	No.s		0.00	INR Zero Only
88	Providing and fixing toilet paper holder- C.P. brass	item88	2.00	No.s		0.00	INR Zero Only
89	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.	item89	2.00	No.s		0.00	INR Zero Only
90	Providing and fixing white vitreous china extended wall mounting water closet of size 550x370x380 mm (Approx.) of approved shape including nuts, bolts and gasket etc complete.	item90	5.00	No.s		0.00	INR Zero Only
91	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter	item91	5.00	No.s		0.00	INR Zero Only

92	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931- 15mm	item92	10.00	No.s		0.00	INR Zero Only
93	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	item93	25.00	No.s		0.00	INR Zero Only
94	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	item94	5.00	No.s		0.00	INR Zero Only
95	Providing and fixing uplasticised braided PVC connection pipe with brass unions-45 cm length 15 mm nominal bore	item95	10.00	No.s		0.00	INR Zero Only
96	Providing and fixing uplasticised braided PVC connection pipe with brass unions-60 cm length 15 mm nominal bore	item96	10.00	No.s		0.00	INR Zero Only
97	Supplying only - 'JAQUAR' - Continental Series - Spindle with Rubber Washer with Spindle 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.	item97	25.00	No.s		0.00	INR Zero Only
98	Supplying only - 'JAQUAR' - Jaquar Pressmatic Fitting With Button suitable for Pressmatic Valve (Code No : ZMS-CHR-276). Any other Jaquar sppindle may be used if mentioned product code is not compatible with existing Pressmatic valve.	item98	2.00	No.s		0.00	INR Zero Only
99	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	item99	20.00	Mtr		0.00	INR Zero Only
100	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	item100	15.00	Mtr		0.00	INR Zero Only
101	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	item101	15.00	Mtr		0.00	INR Zero Only

102	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- 40 mm nominal dia Pipes	item102	20.00	Mtr		0.00	INR Zero Only
103	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- 50 mm nominal dia Pipes	item103	20.00	Mtr		0.00	INR Zero Only
104	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, cost of GI "Z" fittings and GI bolt clamps 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. -75 mm dia (Min.wall thickness 3.20 mm)	item104	18.00	Mtr		0.00	INR Zero Only
105	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, cost of GI "Z" fittings and GI bolt clamps 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. 110 mm dia (Min.wall thickness 3.20mm)	item105	18.00	Mtr		0.00	INR Zero Only
106	Providing and fixing G.I. 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 : 15 mm dia nominal bore	item106	20.00	Mtr		0.00	INR Zero Only
107	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 15 mm dia nominal bore	item107	50.00	Mtr		0.00	INR Zero Only
108	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 25 mm dia nominal bore	item108	50.00	Mtr		0.00	INR Zero Only
109	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 40 mm dia nominal bore	item109	20.00	Mtr		0.00	INR Zero Only
110	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 50 mm dia nominal bore	item110	100.00	Mtr		0.00	INR Zero Only

111	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work : 80 mm dia nominal bore	item111	10.00	Mtr		0.00	INR Zero Only
112	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore	item112	5.00	Each		0.00	INR Zero Only
113	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 50 mm nominal bore	item113	2.00	Each		0.00	INR Zero Only
114	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 80 mm nominal bore	item114	2.00	Each		0.00	INR Zero Only
115	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	item115	10.00	Each		0.00	INR Zero Only
116	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 3.5 NOTE: 200 mm thick PCC, 230 mm brick masonry wall in CM 1:4, cement concrete slant 150 mm thick, 12 mm Plastering in CM 1:3 with neat cement, 10 dia TMT bars @ 100 mm c/c, form work shuttering, bitumen painting to cover & frame.	item116	1.00	Each		0.00	INR Zero Only
117	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).	item117	250.00	kgs		0.00	INR Zero Only
118	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) : for fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	item118	100.00	kgs		0.00	INR Zero Only

119	.-Do- as per item 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)	item119	100.00	kgs		0.00	INR Zero Only
120	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides	item120	10.00	Sqm		0.00	INR Zero Only
121	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)	item121	10.00	Sqm		0.00	INR Zero Only
122	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	item122	2.00	Each		0.00	INR Zero Only
123	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	item123	200.00	Metre		0.00	INR Zero Only
124	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	item124	6.00	Each		0.00	INR Zero Only
125	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600 Up to 5mm depth and 5 mm width	item125	150.00	Metre		0.00	INR Zero Only

126	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.	item126	25.00	Sqm		0.00	INR Zero Only
127	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.	item127	20.00	Sqm		0.00	INR Zero Only
128	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).	item128	400.00	Sqm		0.00	INR Zero Only
129	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. 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. (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	item129	300.00	Sqm		0.00	INR Zero Only
130	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	item130	10.00	Sqm		0.00	INR Zero Only

131	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 up to 12 mm diameter	item131	50.00	Rmt		0.00	INR Zero Only
132	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	item132	10.00	Sqm		0.00	INR Zero Only
133	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.	item133	7.00	Sqm		0.00	INR Zero Only
134	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 fasters, hand operated machine etc.	item134	5.00	Per hole		0.00	INR Zero Only
135	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 fasters, hand operated machine etc.	item135	4.00	Per hole		0.00	INR Zero Only
136	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 fasters, hand operated machine etc.	item136	3.00	Per hole		0.00	INR Zero Only
137	Hire charges of JCB including cost of fuel, operator, helper with standby fuel, mobil for Excavation, loading the branches of trees, stems, firewood, logs etc. into truck including cost of all all incidental charges complete in all respect as per direction of the Engineer-In Charge. Hour calculation will be measured from start time of work at site to the end time of work at site.	item137	12.00	Per hour		0.00	INR Zero Only

138	<p>Supervisor (Highly Skilled):- Civil Maintenance E-Ticket management, Analyze the raised E-tickets, Interact with users, Understand the work, Instruct to workers about the work and methodology through which work will be performed, Keep records of assignments and produce detailed work reports, conduct repairs or maintenance as per user's requirement, Supervision of the plumbing and carpentry work to be done by Carpenter, Plumber and their helper, completion of work with all safety precautions and finally closing of E-tickets, Ensure quality of executed works, Keep records of assignments and produce daily wise detailed work reports. Maintaining records of materials used and inform if there is shortage of any materials, Managing and rectify the issue If there is any Shutdown, Major leakage or any Emergency repairs and Maintenance work related to Carpentry and Plumbing works, All other works as directed by IPR Engineer in Charge.</p> <p>He should be capable of working efficiently and supervising work of skilled labors. Diploma engineer / supervisor with 1 year experience in civil work will be required.</p> <p>Work to be done from 9AM to 5:30 PM from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours.</p>	item138	528.00	Per Day		0.00	INR Zero Only
139	<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.</p> <p>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, 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.</p> <p>Work to be done from 9AM to 5:30 PM from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours. (As and when required). 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.</p>	item139	528.00	Per Day		0.00	INR Zero Only

140	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 from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours. (As and when required). Tools and tackles i.e.. tape, wrenches, pliers, screw driver, Allen key set, chisel, joint pliers, hammer bit, Angle grinder, drop forged, drill kit, hammer, spanner set, etc. For plumbing work should always be available with plumber.	item140	528.00	Per Day		0.00	INR Zero Only
141	Welder (Skilled) for Repair and Maintenance work related to MS fabrication. Work to be done from 9AM to 5:30 PM from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours. (As and when required). All necessary tools and tackles needed for particular assigned work should be with welder.	item141	20.00	Per Day		0.00	INR Zero Only
142	Helper to carpenter (Semi-Skilled) to assist Carpenter. Work to be done from 9AM to 5:30 PM from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours. (As and when required)	item142	528.00	Per Day		0.00	INR Zero Only
143	Helper to Plumber (Semi-Skilled) to assist plumber. Work to be done from 9AM to 5:30 PM from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours. (As and when required)	item143	528.00	Per Day		0.00	INR Zero Only

144	Unskilled labours helping Miscellaneous civil works including excavation, filling, cleaning, dismantling etc. . Work to be done from 9AM to 5:30 PM from Monday to Friday. In case of emergency, Manpower may called on Saturday / Sunday or holiday including before or after office hours. (As and when required)	item144	528.00	Per Day		0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only					