

Tender Inviting Authority: DIRECTOR, CSIR-CRRI, DELHI MATHURA ROAD, NEW DELHI-110025					
Name of Work: Annual Repair & Maintenance of CRRI Staff Colony, Maharani Bagh, New Delhi-110065					
Contract No: MBSQ/MTCE/ARMO/2025-26					
SCHEDULE OF QUANTITIES					
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
1	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	10320.00	sqm		
2	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	7660.00	sqm		
3	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	5470.00	sqm		
4	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/liter	2480.00	sqm		
5	Wall painting with acrylic emulsion paint, 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. Two Coats	2480.00	sqm		
6	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	2300.00	sqm		
7	Distemping with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 gram/ litre, of approved brand and manufacturer including applying additional coats wherever required to achieve even shade and colour: Old work (one or more coats)	13280.00	sqm		
8	Providing and applying white cement based putty of average thickness 1mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	2650.00	sqm		
9	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	2880.00	sqm		
10	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead with in CRRI Campus and for all lift, as directed by Engineer in-charge: All kinds of soil	50.00	cum		
11	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 the campus of CRRI staff colony. All kinds of soil.	50.00	cum		

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12	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within CRRI Campus : Pipes, cables etc, not exceeding 80 mm dia : All kinds of soil	50.00	mtr		
13	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within CRRI Campus :Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia: All kinds of soil	50.00	mtr		
14	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.	100.00	cum		
15	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to Floor V Level : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources	3.00	cum		
16	Centering and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	10.00	sqm		
17	Centering and shuttering including strutting, propping etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform.	10.00	sqm		
18	Centering and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers	5.00	sqm		
19	Centering and shuttering including strutting, propping etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts	5.00	sqm		
20	Centering and shuttering including strutting, propping etc. and removal of form for:Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	5.00	sqm		
21	Centering and shuttering including strutting, propping etc. and removal of form for:Edges of slabs and breaks in floors and walls ; Under 20 cm wide.	20.00	Metre		
22	Centering and shuttering including strutting, propping etc. and removal of form for:Edges of slabs and breaks in floors and walls: Above 20 cm wide	20.00	sqm		
23	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	200.00	Per bag of cement of 50 kg.		
24	Extra for concrete work in superstructure above floor V level for each four floors or part thereof.	1.00	Cum		

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25	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-II) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	20.00	Sqm.		
26	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-II) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	5.00	Cum.		
27	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-II) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits. 50 mm thick	5.00	sqm		
28	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	250.00	Kg.		
29	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	50.00	Sqm.		
30	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement : All works upto plinth level with Concrete of M35 grade with minimum cement content of 370 kg /cum	1.00	cum		

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31	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement : All works above plinth level upto floor V level with Concrete of M25 grade with minimum cement content of 370 kg /cum	1.00	cum		
32	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof	1.00	cum		
33	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	10.00	Sqm.		
34	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :Cement mortar 1:4 (1 cement : 4 coarse sand)	5.00	Sqm.		
35	Extra for Brickwork in superstructure, above floor V level for every four floors or part thereof by mechanical means.	5.00	sqm		
36	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in cement mortar 1:4 (1 cement : 4 coarse sand).	25.00	Sqm.		
37	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.In Cement mortar 1:4 (1 cement :4 coarse sand).	25.00	Sqm.		
38	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	12.60	Sqm.		
39	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	50.00	Sqm.		

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40	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.marble 8.2.2.1 Area of slab upto 0.50/Area of slab over 0.50: Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black having area of slab upto & above 0.50Sqm.	5.00	sqm		
41	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.marble 8.2.2.1 Area of slab upto 0.50/Area of slab over 0.50: Granite stone slab of colour black, Cherry/Ruby red. Area upto & above 0.50Sqm.	10.00	sqm		
42	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete	20.00	mtr		
43	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	10.00	each		
44	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	5.00	sqm		
45	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately): Sal wood	1.00	cum		
46	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, (weight not less than10 kg per sqm) fixing with ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws: Second class teak wood: 30 mm thick	140.00	sqm		

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47	Providing and fixing Pre-laminated flat pressed 3 layer (medium density)particle board or graded wood particle board IS : 3087 marked, with oneside decorative and other side balancing lamination Grade I, Type Ilexterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately): 18 mm thick	10.00	sqm		
48	Providing and fixing Pre-laminated flat pressed 3 layer (medium density)particle board or graded wood particle board IS : 3087 marked, with oneside decorative and other side balancing lamination Grade I, Type Ilexterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately): 25 mm thick	10.00	sqm		
49	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction withframe of 1st class hard wood and well matched commercial 3 plyveneering with vertical grains or cross bands and face veneers on bothfaces of shutters: 35 mm thick including ISI marked Stainless Steel butt hingeswith necessary screws	20.00	sqm		
50	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction withframe of 1st class hard wood and well matched commercial 3 plyveneering with vertical grains or cross bands and face veneers on bothfaces of shutters: 30 mm thick including ISI marked Stainless Steel butt hingeswith necessary screws	20.00	sqm		
51	25 mm thick (for cupboard) including ISI marked nickel platedbright finished M.S. piano hinges with necessary screws	20.00	sqm		
52	Extra for providing lipping with 2nd class teak wood battens 25 mmminimum depth on all edges of flush door shutters (over all area of doorshutter to be measured).	20.00	sqm		
53	Extra for cutting rebate in flush door shutters (Total area of the shutterto be measured).	10.00	sqm		
54	Providing and fixing wooden moulded beading to door and window frameswith iron screws, plugs and priming coat on unexposed surface etc.complete : 2nd class teak wood: 50x12 mm	25.00	metre		
55	Providing and fixing wooden moulded beading to door and window frameswith iron screws, plugs and priming coat on unexposed surface etc.complete : 2nd class teak wood: 50x20 mm	25.00	metre		
56	Providing and fixing chromium plated brass curtain rod having wallthickness of 1.25mm with two chromium plated brass brackets fixedwith C.P. brass screws and PVC sleeves etc., wherever necessarycomplete : 25 mm dia	300.00	metre		
57	Providing and fixing M.S. grills of required pattern in frames of windowsetc. with M.S. flats, square or round bars etc. including priming coatwith approved steel primer all complete. Fixed to steel windows by welding	50.00	kg		
58	Fixed to openings /wooden frames with rawl plugs screws etc	50.00	kg		

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59	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.	10.00	sqm		
60	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 300x100x150 mm 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size).	20.00	each		
61	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 : 150x10 mm	392.00	each		
62	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 : 250x10 mm	40.00	each		
63	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 : 125mm	440.00	each		
64	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete. (copper oxidized as per IS: 1378): 250 mm weighing not less than 280 grams	200.00	each		
65	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : (copper oxidized as per IS: 1378): 250x16 mm	20.00	each		
66	Providing and fixing 50 mm bright finished brass cup board or wardrobe nob of approved quality with necessary screws.	10.00	each		
67	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.	5.00	each		
68	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screw set. Complete : Size 65 mm	5.00	each		
69	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 screw set. Complete: Twin rubber stopper	20.00	each		

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70	30 mm thick factory made Polyvinyl Chloride (PVC) door/shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ($\pm$ 0.2 mm), with built decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm ($\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ($\pm$ 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm ($\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	16.00	sqm		
71	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profile to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	38.00	mtr		
72	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight (Only plan area of chajja shall be measured for making payment).	10.00	sqm		
73	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : 30 mm thick shutters: with ISI marked M.S. pressed butt hinges bright finished of required size: Second class teak wood	140.28	sqm		

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74	Providing and fixing stainless steel soft closing spring hinges at 0-degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	50.00	each		
75	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	150.00	kg		
76	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	50.00	kg		
77	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer: Using M.S. angles 40x40x6 mm for diagonal braces	10.00	sqm		
78	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment): Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	50.00	kg		
79	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.	50.00	metre		
80	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete: Hot finished seamless type tubes	200.00	kg		
81	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	5.00	each		
82	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required: In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	100.00	kg		
83	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required: In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	100.00	kg		

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84	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete: Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	25.00	sqm		
85	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes (weights not less than 10 kg/ sqm)	25.00	sqm		
86	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: 75 mm diameter	25.00	metre		
87	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	25.00	metre		
88	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Coupler: 75 mm	10.00	each		
89	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Coupler: 110 mm	10.00	each		
90	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Single pushfit Coupler: 75 mm	10.00	each		
91	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Single pushfit Coupler: 110 mm	10.00	each		
92	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Single tee with door: 75x75x75 mm	10.00	each		
93	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Single tee with door: 110x110x110 mm	10.00	each		
94	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Single tee without door: 75x75x75 mm	10.00	each		

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Name of Work: Annual Repair & Maintenance of CRRI Staff Colony, Maharani Bagh, New Delhi-110065					
Contract No: MBSQ/MTCE/ARMO/2025-26					
SCHEDULE OF QUANTITIES					
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
95	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Single tee without door: 110x110x110 mm	10.00	each		
96	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Bend 87.5: 75 mm bend	10.00	each		
97	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Bend 87.5: 110 mm bend	10.00	each		
98	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Shoe (Plain): 75 mm Shoe	10.00	each		
99	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for 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. Shoe (Plain): 110 mm Shoe	10.00	each		
100	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hardwood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete: 75 mm	25.00	each		
101	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hardwood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete: 110 mm	25.00	each		
102	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	10.00	sqm		

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Contract No: MBSQ/MTCE/ARMO/2025-26					
SCHEDULE OF QUANTITIES					
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
103	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work : 75 mm diameter pipes	200.00	metre		
104	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work : 75 mm diameter pipes: 100 mm diameter pipes	200.00	metre		
105	Polishing in high gloss/matt finish melamine clear polish on wood workin required color/wooden shade texture with following process in thesequence as detailed below: 1. The surface to be polished is rubbed with sand paper 80/120 no. andthen with sand paper of 160/180 nos. 2. Applying two coats of sealer with spray gun and allowing sufficientdrying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs. 3. On drying of sealer coat, wet rubbing with emery cloth of finer gradingwith ample water to remove excess sealer layer and make the surfacefurther smooth after this wet rubbing, then surface is applied withspecial grade melamine fillers to fill all the small and big holes/groovesetc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a lightwet rubbing is done this surface is further allowed to dry for 12 hrs: 4. On this, 1st coat of melamine polish is applied with spray gun usingmelamine clear polish and melamine thinner in required proportion.This 1st coat is allowed to dry for 24 hrs then this dry surface is againfine wet rubbed smooth, which is further allowed to dry for 12 hrs. Thefinal melamine polish is applied with compressor pressure spray gunusing melamine clear polish and melamine thinner mixed in requiredproportion complete as per direction of Engineer-in-Charge. (Finalcoat to be done in 1 or 2 layers without gap of time.)	25.00	sqm		
106	Re-lettering with black Japan paint of approved brand and manufacture.	1000.00	per letter per cm height		
107	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 (1cement: 4 coarse sand)	100.00	sqm		
108	Regrading terracing of mud phaska covered with tiles or brick, in cement mortar by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded), all complete as per direction of Engineer-in- Charge.	25.00	sqm		
109	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	50.00	sqm		

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Contract No: MBSQ/MTCE/ARMO/2025-26					
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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
110	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska : With F.P.S. brick tiles	50.00	sqm		
111	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. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	100.00	sqm		
112	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	50.00	each		
113	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150 mm dia upto 300 mm	50.00	metre		
114	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material including malba, all complete as per the direction of Engineer-in charge: Orissa pattern W.C Pan of size 580x440 mm	5.00	each		
115	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	90.00	each		
116	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area beyond 3 sq. metres	10.00	each		
117	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead : 75 to 80 mm dia pipe	248.80	metre		
118	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead : 100 mm dia pipe	25.00	metre		

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1	2	4	5	6	7
119	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	5.00	each		
120	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	10.00	each		
121	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	5.00	each		
122	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	5.00	each		
123	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	100.00	cum		
124	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	50.00	metre		
125	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	50.00	sqm		
126	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	50.00	sqm		
127	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	100.00	metre		

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1	2	4	5	6	7
128	Providing and placing in position 100 mm thick factory made machinebatched & machine mixed Precast RCC Rectangular Covers on drains offootpath of various sizes, of M-25 grade cement concrete for RCC work,including cost of centering, shuttering, reinforcement of 8 mm dia TMTbars of Fe 500 grade @ maximum 100 mm c/c on both ways, neat cementpunning on finished surface, properly encased on all edges with 1.6 mmthick, 100 mm wide MS sheet duly painted over priming coat, reinforcementto be welded at edges with MS sheet and providing 2 Nos. 12 mm dia barfor hooks etc including cost of cartage, all leads & lift, handling at site etc.all complete as per direction of Engineer-in-Charge.	10.00	sqm		
129	Providing and fixing water closet squatting pan (Indian type W.C. pan) with100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushingcistern, including flush pipe, with manually controlled device (handle lever)conforming to IS : 7231, with all fittings and fixtures complete, includingcutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests	2.00	each		
130	Providing and fixing white vitreous china pedestal type water closet(European type W.C. pan) with seat and lid, 10 litre low level white P.V.C.flushing cistern, including flush pipe, with manually controlled device(handle lever), conforming to IS : 7231, with all fittings and fixturescomplete, including cutting and making good the walls and floors whereverrequired : W.C. pan with ISI marked white solid plastic seat and lid	2.00	each		
131	Providing and fixing white vitreous china pedestal type water closet(European type) with seat and lid, 10 litre low level white vitreous chinaflushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flushbend, overflow arrangement with specials of standard make and mosquitoproof coupling of approved municipal design complete, including paintingof fittings and brackets, cutting and making good the walls and floorswherever required : W.C. pan with ISI marked white solid plastic seat and lid	2.00	each		
132	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillartaps, 32 mm C.P. brass waste of standard pattern, including painting offittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400 mm with apair of 15 mm C.P. brass pillar taps	2.00	each		
133	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillartaps, 32 mm C.P. brass waste of standard pattern, including painting offittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mmwith single 15 mm C.P. brass pillar tap	2.00	each		

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1	2	4	5	6	7
134	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required: White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	3.00	each		
135	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	5.00	each		
136	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. : For 100 mm dia pipe	20.00	each		
137	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. : For 75 mm dia pipe	20.00	each		
138	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall: 20 mm nominal dia Pipes	30.00	metre		
139	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall: 25 mm nominal dia Pipes	5.00	metre		
140	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall: 32 mm nominal dia Pipes	5.00	metre		
141	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall: 40 mm nominal dia Pipes	5.00	metre		

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
142	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall: 50 mm nominal dia Pipes	15.00	metre		
143	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m 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	30.00	metre		
144	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m 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	5.00	metre		
145	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m 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	5.00	metre		
146	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m 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: 32 mm nominal dia Pipes	5.00	metre		
147	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work: 40 mm nominal dia Pipes	5.00	metre		

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1	2	4	5	6	7
148	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with onestep CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work: 50 mm nominal dia Pipes	15.00	metre		
149	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with onestep CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work: 80 mm nominal dia Pipes	5.00	metre		
150	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with onestep CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work: 100 mm nominal dia Pipes	15.00	metre		
151	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1500.00	per litre		
152	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	10.00	each		
153	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	100.00	metre		
154	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality: L D- 2.5: Rectangular shape 600x450 mm internal dimensions	10.00	each		
155	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality: L D- 2.5: Square shape 450 mm internal dimensions	10.00	each		
156	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality: L D- 2.5: Circular shape 450 mm internal diameter	5.00	each		
157	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	10.00	each		
158	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) : Rectangular manhole 90x80 cm with rectangular cover 600x 450 mm of grade LD - 2.5	1.00	each		

SIGNATURE OF TENDERER WITH DATE

Tender Inviting Authority: DIRECTOR, CSIR-CRRI, DELHI MATHURA ROAD, NEW DELHI-110025					
Name of Work: Annual Repair & Maintenance of CRRI Staff Colony, Maharani Bagh, New Delhi-110065					
Contract No: MBSQ/MTCE/ARMO/2025-26					
SCHEDULE OF QUANTITIES					
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
159	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) : Rectangular manhole 120x90 cm with circular cover 500mm dia of grade MD - 10	1.00	each		
160	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) : Rectangular manhole 120x90 cm with circular cover 560mm dia of grade HD - 20	1.00	each		
161	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) : Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	1.00	each		
162	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 / panelling, 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: Powder coated aluminium (minimum thickness of powder coating 50 micron)	100.00	kg		
163	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): Powder coated aluminium (minimum thickness of powder coating 50 micron)	100.00	kg		
164	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Gradel Type II, in panelling fixed in aluminium 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 one side and balancing lamination on other side	25.00	sqm		
165	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 4.0 mm thickness (weight not less than 10kg/sqm)	25.00	sqm		

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
166	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screw etc. to the side hung windows as per direction of Engineer-in-charge complete: 205 X 19 mm	5.00	each		
167	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screw etc. to the side hung windows as per direction of Engineer-in-charge complete: 255 X 19 mm	5.00	each		
168	Providing and fixing Brass 100 mm 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.	5.00	each		
169	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	20.00	kg		
170	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying. First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours: The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	20.00	sqm		

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
171	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement	20.00	sqm		
172	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: 75mm average thickness	10.00	sqm		
173	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	10.00	sqm		
174	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: 25 mm average thickness	10.00	sqm		

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
175	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge: Bars upto 12 mm diameter	100.00	sqm		
176	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 above 12 mm diameter	100.00	sqm		
177	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: Upto and including 12mm dia	50.00	each		
178	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	30.00	sqm		
179	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): 12mm average thickness.	10.00	sqm		
180	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): 12mm average thickness: 25 mm average thickness in 2 layers.	10.00	sqm		

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P
1	2	4	5	6	7
181	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): 12mm average thickness: 50 mm average thickness in 3 layers.	10.00	sqm		
182	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness. Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (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): 50mm thick in Grade M 25 with cement content not less than 330 kg per cum	10.00	sqm		
183	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness. Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (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): 75mm thick in Grade M 25 with cement content not less than 330 kg per cum	10.00	sqm		

Total in Figures

Quoted Rate in Words

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