

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|----------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| A | Pre construction activities | | | |
| 1 | Preconstruction Activtie, Preparation and Submission of Plan and approval | one job | Each job | |
| 2 | Preparation of working drawings | one job | Each job | |
| 3 | Preparation of Structural drawings | one job | Each job | |
| 4 | Conducting Geo-technical Investigation | one job | Each job | |
| | Total of Pre construction activities - A | | | |
| B | CIVIL | | | |
| I | Earthwork | | | |
| 1 | Earthwork in excavation by mechanical means(Hydraulic Excavator)/Manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. | | | |
| | All kinds of Soil | 439.00 | cum | |
| 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 | 319.20 | cum | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| II | Trenches | | | |
| 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 m and lift upto 1.5 m. | 432.25 | cum | |
| 4 | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. | | | |
| | All kinds of soil. | 404.00 | cum | |
| 5 | Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete. | 95.25 | cum | |
| 6 | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. | 450.00 | 100 sqm | |
| III | Concrete work | | | |
| 7 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : | | | |
| a | 1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size) | 2.35 | cum | |
| b | 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | 76.25 | cum | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 8 | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing : | | | |
| | 1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size) | 3.20 | cum | |
| 9 | Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size). | 63.00 | sqm | |
| 10 | Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. | 21.00 | per 50 kg cement | |
| 11 | Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth. | 59.00 | sqm | |
| IV | Reinforced cement concrete | | | |
| 12 | 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 : 3 graded stone aggregate 20 mm nominal size) | 13.60 | cum | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 13 | 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. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : | | | |
| | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | 6.35 | cum | |
| 14 | Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). | 1.50 | cum | |
| 15 | Centering and shuttering including strutting, propping etc. and removal of form for : | | | |
| a | Foundations, footings, bases of columns, etc. for mass concrete | 172.05 | sqm | |
| b | Suspended floors, roofs, landings, balconies and access platform | 685.50 | sqm | |
| c | Lintels, beams, plinth beams, girders, bressumers and cantilevers | 1580.00 | sqm | |
| d | Columns, Pillars, Piers, Abutments, Posts and Struts | 594.00 | sqm | |
| e | Stairs, (excluding landings) except spiral-Staircases | 81.00 | sqm | |
| f | Vertical and horizontal fins individually or forming box louvers band, facias and eaves | 13.00 | sqm | |
| g | Weather shade, Chajjas, corbels etc., including edges | 121.00 | sqm | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 16 | Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). | 0.30 | cum | |
| 17 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. | | | |
| | Thermo-Mechanically Treated bars | 14306.00 | kg | |
| 18 | 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 | 33634.00 | kg | |
| 19 | Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand). | 2890.00 | sqm | |
| 20 | Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand), including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps, including subsequent removal and cleaning of the same. | 743.00 | sqm | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 21 | Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately. | | | |
| | Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum) | 101.00 | cum | |
| 22 | Add for using extra cement in the items of design mix over and above the specified cement content therein. | 10.10 | quintal | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 23 | Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. | | | |
| a | All works upto plinth level | 120.00 | cum | |
| b | All works above plinth level upto floor V level | 283.00 | cum | |
| V | Brickwork | | | |
| 24 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: | | | |
| | Cement mortar 1:6 (1 cement : 6 coarse sand), Common burnt clay F.P.S. (non modular) bricks class designation 7.5; Common burnt clay F.P.S. (non modular) bricks class designation 5.0 | 98.30 | cum | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 25 | Brickwork in superstructure | | | |
| | Cement mortar 1:6 (1 cement : 6 coarse sand); Common burnt clay F.P.S. (non modular) bricks class designation 7.5; Common burnt clay F.P.S. (non modular) bricks class designation 5.0 | 238.75 | cum | |
| 26 | 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 | | | |
| | Cement mortar 1:4 (1 cement : 4 coarse sand) | 898.00 | sqm | |
| 27 | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry. | 898.00 | sqm | |
| VI | Granite work | | | |
| 28 | Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately). | | | |
| | Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble. | | | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | Area slab over 0.50sqm; Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm); Granite of any colour, 18 mm thick (slab area above 0.50 sqm) | 16.70 | sqm | |
| 29 | Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately). | | | |
| | Stainless steel cramps | 3.40 | kg | |
| VII | Wood works | | | |
| 30 | 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). | | | |
| | Second class teak wood | 0.63 | cum | |
| 31 | Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. | | | |
| | Second class teak wood | | | |
| | 35mm thick shutters | 29.40 | sqm | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 32 | Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick : | 23.50 | sqm | |
| 33 | Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc. | 96.00 | each | |
| 34 | Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete. | | | |
| | 50mm long | 96.00 | each | |
| 35 | 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 | 13.00 | each | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 36 | Providing and fixing aluminium sliding door 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 nuts and screws etc. complete : | | | |
| a | 300x16 mm | 3.00 | each | |
| b | 250x16 mm | 13.00 | each | |
| 37 | 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 : | | | |
| a | 250x10 mm | 48.00 | each | |
| b | 150x10 mm | 312.00 | each | |
| c | 100x10 mm | 288.00 | each | |
| 38 | 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 | | | |
| a | 100mm | 272.00 | each | |
| b | 75 mm | 246.00 | each | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 39 | <p>Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (\pm 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (\pm 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile.</p> <p>PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineerin- charge.</p> | 61.20 | metre | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 40 | Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge. | 22.70 | sqm | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| VIII | Steel work | | | |
| 41 | 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. | 43.00 | each | |
| 42 | 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. | | | |
| a | In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete | 2610.00 | kg | |
| b | In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works | 1205.00 | kg | |
| 43 | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. | | | |
| | M.S. Tube | 92.00 | kg | |
| IX | Flooring | | | |
| 44 | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. | | | |
| | 40 mm thick with 20 mm nominal size stone aggregate | 52.00 | sqm | |
| 45 | Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. | | | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | 18 mm thick | 6.00 | sqm | |
| 46 | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : | | | |
| | 25 mm thick | 83.00 | sqm | |
| 47 | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. | 3.40 | sqm | |
| 48 | 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 except burgundy, bottle green, black 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 : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. | 284.00 | sqm | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 49 | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete. | 27.50 | sqm | |
| 50 | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. | | | |
| | Size of Tile 600x600 mm | 465.00 | sqm | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 51 | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. | | | |
| | Size of Tile 600x600 mm | 286.00 | sqm | |
| X | Roofing | | | |
| 52 | 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 | 75.60 | metre | |
| 53 | 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. | | | |
| a | Coupler | | | |
| | 110 mm | 12.00 | each | |
| b | Single tee with door | | | |
| | 110x110x110 mm | 6.00 | each | |

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| c | Bend 87.5° | | | |
| c1 | 110 mm bend | 6.00 | each | |
| c2 | 110 mm Shoe(plain) | 6.00 | each | |
| 54 | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood 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 | 38.00 | each | |
| XI | Finishing | | | |
| 55 | 12mm cement plaster of mix | | | |
| | 1:6 (1 cement: 6 fine sand) | 1923.00 | sqm | |
| 56 | 15 mm cement plaster on the rough side of single or half brick wall of mix : | | | |
| | 1:6 (1 cement: 6 fine sand) | 1733.00 | sqm | |
| 57 | 12 mm cement plaster finished with a floating coat of neat cement of mix : | | | |
| | 1:3 (1 cement: 3 fine sand) | 23.00 | sqm | |
| 58 | White washing with lime to give even shade | | | |
| | New work (three or more coats) | 412.00 | sqm | |
| 59 | Finishing walls with water proof cement paint of required shade. | | | |
| | New work (Two or more coats applied @ 3.84 kg/10 sqm) | 430.00 | sqm | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 60 | Finishing walls with Acrylic Smooth exterior paint of required shade : | | | |
| | New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) | 1784.00 | sqm | |
| 61 | Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications | | | |
| a | Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm | 4370.00 | sqm | |
| b | Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand and manufacture. | 90.00 | sqm | |
| c | Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture. | 56.00 | sqm | |
| 62 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : | | | |
| | Two or more coats on new work | 20.00 | sqm | |

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| XII | Road work | | | |
| 63 | Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres. | 66.00 | sqm | |
| 64 | Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete./Moorum/Sand zone V (Jamuna) | 20.00 | cum | |
| 65 | Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete. | 6.60 | cum | |
| 66 | Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete 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 to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). | 1.00 | cum | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| XIII | Sanitary Installation | | | |
| 67 | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : | | | |
| | W.C. pan with ISI marked black solid plastic seat and lid | 13.00 | each | |
| 68 | Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : | | | |
| | One urinal basin with 5 litre white P.V.C. automatic flushing cistern | 3.00 | each | |
| 69 | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. Brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : | | | |
| | White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap | 10.00 | each | |

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| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 70 | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : | | | |
| | Size 600x450x200 mm | 1.00 | each | |
| 71 | Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required : | | | |
| | White glazed fire clay draining board of size 600x450x25 mm | 1.00 | each | |
| 72 | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. | | | |
| | Flexible pipe of 20mm dia | 10.00 | each | |
| 73 | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. | 10.00 | each | |
| 74 | Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. Brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete. | 10.00 | each | |
| 75 | Providing and fixing toilet paper holder | | | |
| | C.P brass | 13.00 | each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 76 | Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. | | | |
| a | Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms | 10.00 | each | |
| b | Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms | 1.00 | each | |
| 77 | Providing and fixing PTMT bottle trap for wash basin and sink. | | | |
| a | Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms | 10.00 | each | |
| b | Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms | 1.00 | each | |
| 78 | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. | | | |
| | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms | 7.00 | each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 79 | Providing and fixing PVC Soil, waste and vent pipe to IS: 13592 of SWR quality 4kg/sq.cm pressure rated upto 110mm dia and 6kg/sq.cm pressure rated agriculture series above 100mm, including all fittings, like EG: Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber rin g/ solvent cement by application of leak proof adhesive like FRP including cutting holes in walss and floors and making good | 139.00 | metre | |
| 80 | Providing and fixing PVC 'P' or 'S' floor trap self cleansing design with or without vent arm complete including cutting and making good the walls and floors.. | 14.00 | each | |
| XIV | Water supply | | | |
| 81 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including 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. | | | |
| a | 15mm nominal outer dia pipes | 42.00 | metre | |
| b | 20mm nominal outer dia pipes | 42.00 | metre | |
| c | 25mm nominal outer dia pipes | 29.00 | metre | |
| d | 40mm nominal outer dia pipes | 19.00 | metre | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 82 | 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. | | | |
| | 40mm nominal outer dia pipes | 60.00 | metre | |
| 83 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : | | | |
| a | 25mm nominal bore | 3.00 | each | |
| b | 40mm nominal bore | 1.00 | each | |
| 84 | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : | | | |
| | 25 mm nominal bore | 1.00 | each | |
| 85 | Providing and fixing gun metal non- return valve of approved quality (screwed end) : | | | |
| | 40 mm nominal bore- horizontal | 1.00 | each | |
| 86 | Providing and fixing uplasticised PVC connection pipe with brass unions : | | | |
| | 45cm length | | | |
| | 15 mm nominal bore | 26.00 | each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|--------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 87 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 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. | 5000.00 | litres | |
| 88 | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : | | | |
| | 15 mm nominal bore | 6.00 | each | |
| 89 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. | | | |
| | 15 mm nominal bore | 14.00 | each | |
| 90 | Providing and fixing PTMT grating of approved quality and colour. | | | |
| | Rectangular type with openable circular lid | | | |
| | 150 mm nominal size square 100 mm diameter of the inner hinged round grating | 6.00 | each | |
| 91 | Cutting holes up to 30x30 cm in walls including making good the same: | | | |
| | With common burnt clay F.P.S. (non modular) bricks | 7.00 | each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 92 | Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20 mm nominal size) including disposal of malba. | 7.00 | each | |
| XV | Drainage | | | |
| 93 | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : | | | |
| | 100mm dia | 6.00 | metre | |
| 94 | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : | | | |
| | 100 mm diameter S.W. pipe | 6.00 | metre | |
| 95 | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : | | | |
| | 150 x 100 mm size P type | | | |
| | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 5.00 | each | |
| 96 | Providing and laying non-pressure NP2 class (light duty) R.C.C. Pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | 150 mm dia. R.C.C. Pipe | 25.00 | metre | |
| 97 | Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 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 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : | | | |
| | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 6.00 | each | |
| 98 | Extra for depth for manholes | | | |
| | Size 90x80 cm | | | |
| | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 2.00 | metre | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 99 | Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement: 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel 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, all complete as per standard design : | | | |
| | 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) : | | | |
| | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 2.00 | each | |
| 100 | Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 3.00 | each | |
| XVI | Aluminium works | | | |
| 101 | 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 position | | | |
| | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | 948.00 | kg | |
| 102 | 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) | 1483.00 | kg | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 103 | 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 | 36.00 | sqm | |
| 104 | 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 5.50 mm thickness | 160.00 | sqm | |
| 105 | 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 C227 upto 125 kg, for doors, including cost of cutting+C250 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 brass cover plate minimum 1.25 mm thickness | 33.00 | each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 106 | Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineerin- charge complete. | | | |
| | 255 X 19 mm | 300.00 | each | |
| 107 | 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 | 550.00 | metre | |
| 108 | Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. | 29.00 | each | |
| 109 | Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineerin- charge | | | |
| | Anodized (AC 15) aluminium | 29.00 | each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 110 | 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). | 226.00 | kg | |
| XVII | Water proofing | | | |
| 111 | Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : | 133.00 | sqm | |

Urban Health centre at Kuruchikuppam, Pondicherry

| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
|-------|--|----------|------|------------------------------|
| 112 | <p>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: a) 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. b) 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 imilarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c)</p> | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | <p>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. d) 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 slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p> | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|---------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | With average thickness of 120 mm and minimum thickness at khurra as 65 mm. | 306.00 | sqm | |
| 113 | Dismantling the existing RCC/ Load bearing structures built up with bricks and/or stone masonry walls, roofing with RCC slabs/Mangalore tiles roofing including the disposal of all unserviceable materials away from the site at dump yard approved by the local authorities and stacking the serviceable materials at site. The dismantling also is inclusive of foundation below the ground level where required for laying foundation for the proposed building. The work shall be carried out as per the instructions of the Engineer-in-charge. The contractor shall quote the rate after inspecting the building to be demolished as identified by the Engineer-in-charge/ Architect. | 1.00 | one job | |
| | Total of Civil works -B | | | |
| C | SERVICES | | | |
| I | WIRING | | | |
| 1 | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. | | | |
| a | Group A | 15.00 | Point | |
| b | Group B | 189.00 | Point | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| c | Group C | 5.00 | Point | |
| 2 | Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. | 4.00 | Point | |
| 3 | Wiring for light/ power plug with 2X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required. | 2940.00 | Metre | |
| 4 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required | | | |
| a | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire | 1220.00 | Metre | |
| b | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire | 2940.00 | Metre | |
| c | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire | 1800.00 | Metre | |
| d | 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire | 50.00 | Metre | |
| e | 4 X 6 sq. mm + 2 X 6 sq. mm earth wire | 50.00 | Metre | |
| f | 4 X 10 sq. mm + 2 X 10 sq. mm earth wire | 100.00 | Metre | |
| g | 4 X 16 sq. mm + 2 X 16 sq. mm earth wire | 100.00 | Metre | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 5 | Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. | | | |
| | 2 Pair | 1080.00 | Metre | |
| 6 | Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required. | 60.00 | Metre | |
| 7 | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. | | | |
| a | 20 mm | 1080.00 | Metre | |
| b | 25 mm | 840.00 | Metre | |
| 8 | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. | | | |
| a | Telephone socket outlet | 28.00 | Each | |
| b | TV antenna socket outlet | 1.00 | Each | |
| c | Bell push | 2.00 | Each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 9 | Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required. | 59.00 | Each | |
| 10 | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required. | 30.00 | Each | |
| 11 | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. | | | |
| | 1 or 2 Module (75mmX75mm) | 31.00 | Each | |
| 12 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings). | 113.00 | Each | |
| 13 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. | 57.00 | Each | |
| 14 | Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required. | 2.00 | Each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 15 | Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required. | 84.00 | Each | |
| 16 | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required. | 59.00 | Each | |
| 17 | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. | | | |
| | Upto 450 mm sweep | 8.00 | Each | |
| 18 | Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes. | 8.00 | Each | |
| II | MCCB, MCB & DB'S | | | |
| 19 | Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. | | | |
| | 100 Amp, 16 KA | 3.00 | Each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 20 | Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator) | | | |
| a | 4 way (4 + 12), Single door | 7.00 | Each | |
| b | 12 way (4 + 36), Double door | 2.00 | Each | |
| 21 | Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of 100 amps TP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) | | | |
| | 4 Way TP | 3.00 | Each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 22 | Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | |
| a | Single pole | 170.00 | Each | |
| b | Single pole and neutral | 10.00 | Each | |
| c | Double pole | 10.00 | Each | |
| d | Triple pole | 10.00 | Each | |
| e | Triple pole and neutral | 10.00 | Each | |
| 23 | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required. | 30.00 | Each | |
| 24 | Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | |
| a | 40 amps | 7.00 | Each | |
| b | 63 amps | 2.00 | Each | |
| 25 | Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| a | 40 amps | 7.00 | Each | |
| b | 63 amps | 2.00 | Each | |
| 26 | Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required. | 6.00 | each | |
| 27 | Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. | 19.00 | Each | |
| 28 | Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required. | 6.00 | Each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| III | CABLE TRAYS | | | |
| 29 | Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. | | | |
| | 100 mm width X 50 mm depth X 1.6 mm thickness | 50.00 | Metre | |
| 30 | Supplying and installing following size of perforated pre-painted M.S. cable trays bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. | | | |
| | 100 mm width X 50 mm depth X 1.6 mm thickness | 50.00 | Each | |
| 31 | Supplying and installing following size of perforated pre-painted M.S. cable trays reducers with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. | | | |
| | 100 mm width X 50 mm depth X 1.6 mm thickness | 20.00 | Each | |
| 32 | Supplying and installing following size of perforated pre-painted M.S. cable trays Tee's with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. | | | |
| | 100 mm width X 50 mm depth X 1.6 mm thickness | 20.00 | Each | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 33 | Supplying and installing following size of perforated pre-painted M.S. cable trays cross members with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. | | | |
| | 100 mm width X 50 mm depth X 1.6 mm thickness | 20.00 | Each | |
| IV | E A R T H I N G | | | |
| 34 | Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required. | 3.00 | Each | |
| 35 | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 8.00 | Set | |

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|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 36 | Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 8.00 | Set | |
| 37 | Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required. | 200.00 | Metre | |
| 38 | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required. | 420.00 | Metre | |
| 39 | Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required. | 340.00 | Metre | |
| V | LIGHTNING CONDUCTOR | | | |
| 40 | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required. | 8.00 | Each | |
| 41 | Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required. | 8.00 | Each | |
| 42 | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required. | 20.00 | Each | |

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|---|--|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 43 | Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run) | 200.00 | Metre | |
| 44 | Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run) | 240.00 | Metre | |
| 45 | Providing and fixing testing joint, made of 20 mm X 3 mm thick copper strip, 125 mm long, with 4 nos. of tinned brass bolts, nuts, chuck nuts and spring washers etc. complete as required. | 60.00 | Each | |
| 46 | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required. | 60.00 | Each | |
| 47 | Providing and laying copper tape 32 mm X 6 mm from earth electrode directly in ground as required. | 200.00 | Metre | |
| VI | MV CABLE LAYING | | | |
| 48 | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. | | | |
| a | Upto 35 sq. mm | 90.00 | Metre | |
| b | Above 35 sq. mm and upto 95 sq. mm | 170.00 | Metre | |

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|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 49 | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. | | | |
| a | Upto 35 sq. mm (clamped with 1mm thick saddle) | 20.00 | Metre | |
| b | Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp) | 40.00 | Metre | |
| 50 | Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required. | 90.00 | each | |
| VII | MV CABLE JOINTING & END TERMINATION | | | |
| 51 | Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. | | | |
| a | 3½ X 90 sq. mm (38mm) | 2.00 | Each | |
| b | 3½ X 70 sq. mm (38mm) | 2.00 | Each | |
| c | 4 X 25 sq. mm (28mm) | 8.00 | Each | |

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|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| VIII | NETWORKING | | | |
| 52 | Supplying and fixing following rating, 415 volts, C curve MCB in the existing MCB DB, enclosure complete with connections, testing and commissioning etc. as required. | | | |
| | 63A TP MCB | 3.00 | Nos | |
| 53 | Supplying and fixing TP sheet steel enclosure on surface/ recess along with 63 amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required. | 6.00 | each | |
| 54 | Supply & drawing Cat 6E cable in the existing surface / recessed steel / PVC conduit including connection to outlet as required. | 780.00 | mts | |
| 55 | Supplying and fixing modular RJ 45 computer socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. | 24 | Each | |
| 56 | Supplying and fixing following Telephone krone module in box made of plastic including hinged door, krone module with connection etc. as required. | | | |
| | 50 pair krone module | 1.00 | Each | |
| IX | CABLES | | | |
| 57 | Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (Part 1) amended upto date. | | | |

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|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| a | 3.5C x 95 sqmm | 100.00 | m | |
| b | 3.5C x 70 sqmm | 70.00 | m | |
| c | 4C x 25 sqmm | 90.00 | m | |
| X | LIGHT FITTING & FANS | | | |
| 58 | Supply of 2x28W, indoor surface mountable fluorescent CRCA sheet steel power coated body light fixture, 28W T5 lamp, electronic HPF ballast, lamp holder, prewired complete with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (Wipro WIF 20228 SG or equivalent) | 84.00 | Each | |
| 59 | Supply of 1x28W, indoor surface mountable fluorescent CRCA sheet steel power coated body light fixture, 28W T5 lamp, electronic HPF ballast, lamp holder, prewired complete with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (Wipro WIF 20128 SG or equivalent) | 14.00 | Each | |
| 60 | Supply of 1200 mm sweep min three star rated ceiling fan complete with motor, double ball bearing, blades, canopy, 30 cm down rod and without speed regulator suitable for 230 V 50 HZ, AC supply confirms to IS 374/1979 as required complete. (Make Usha Technix or equivalent). | 59.00 | Each | |
| 61 | Supply of 300mm sweep, metal blades with safety guard suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor and all accessories as required complete. (Make : Usha Turbo or equivalent) | 8.00 | Each | |

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|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 62 | Supply and fixing of telephone instrument of normal type | 30.00 | Each | |
| XI | TRANSFORMER | | | |
| 63 | Supply, installation, testing and commissioning of Indoor Unitised substation comprising of 250 KVA, 11000 / 433 V, 3 phase AN cooled, vector group Dyn11, Dry type, class F insulated Cast Resin transformer with off load tap change having tapping range of $\pm 5\%$ in steps of 2.5%, provided with LV cable box suitable for terminating 4 runs of 3.5 x 400 Sq mm AYFY/XLPE cable. The HV terminals of the Transformer connected to 11kV, 400A, 250 MVA Load Break Switch switch with HT fuse, resin cast CT/PT units, provision for TOD Meter for HT metering, ammeter, voltmeter, epoxy encapsuled copper bus bar. 1 set OC & EF relay for the protection of the transformer shall be provided. Earth switch shall be provided with front operated spring charged mechanism. | | | |
| | The HV cable box shall be suitable for terminating 11kV, 3 core 150 sq mm XLPE cable , along with all standard accessories as per IS 11171 and in conformity with all required standards . Neutral CT of 175/5A, 5P10, 15VA shall be provided on the transformer neutral terminal. The The housing of the USS shall be made up of 2 mm thick CRCA sheet. Door interlock to prevent access to live terminal of HT breaker shall be provided. The enclosure shall be compartmentalised. The enclosure shall also house 1 no. emergency trip push button. | 1.00 | SET | |

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|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 64 | Supply of 11kV, 3C 95sqmm (E) grade XLPE insulated, PVC sheathed compact circular armoured aluminium conductor HT power cable, insulation screened with extruded semi conducting compound in combination with copper tape suitable for 11kV earthed system confirming to relevant standard. | 120.00 | mts | |
| XII | DG SET | | | |
| 65 | Supply, Installation, Testing and Commissioning of 125KVA water cooled, radiator type, four stroke, electric start D.G Set with acoustic enclosure and control panel. The DG shall be suitable for AMF operation. The alternator shall be brushless, self excited, self regulated, brushless, suitable for continuous operation at 1500 rpm, generating 415 V +/- 5% at 0.8 p.f, 50Hz, 3 phase, 4 wire system generally conforming to BS: 2613 & IS: 4722. The control panel shall be provided with 1 no. 250A FP 30kA MCCB with O/C & SC protection, ammeter, voltmeter, energy meter, frequency meter, power factor meter, low set earth fault relay using 140/5A 5P10 10VA CT in the neutral earthing conductor | | | |

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|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | Both Engine and Alternator shall be mounted on common channel iron base frame, and with standard accessories such as antivibration pad, lead acid batteries (as specified by engine manufacturer) and engine driven battery charger along with leads, battery stand, fuel piping from fuel tank to Engine, electronic governor, Residential silencer, GI exhaust pipe insulated and clad with aluminium shall be taken above the building with cowl at top, suitable size cable termination box etc as required. Rate shall be inclusive of all lift, lead charges. The work should be as per Electrical Inspectorate / Pollution control board norms. | 1.00 | set | |
| XIII | LT Panels | | | |
| 66 | Supply, Installation, Testing & Commissioning of Main panel, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, IP42, free standing, floor mounting, dust and vermin proof, powder coated, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extendable on both sides, including internal wiring with suitable size wires, rotary handle, spreaders etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification. | | | |
| | INCOMER | | | |

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|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | 2 No.400A, FP, 50kA, EDO, microprocessor based ACB with 3 OC, SC, EF release with shunt trip coil. | | | |
| | 1 No. 400A, FP, 50kA, EDO, microprocessor based ACB with 3 OC, SC, EF release with shunt trip coil. | | | |
| | BUSBARS | | | |
| | 1 Set of 1000 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy. | | | |
| | INSTRUMENTS | | | |
| | 2 Nos 3 phase Digital Multi function meter to read V, A, F with Acc class 1. | | | |
| | 2 Nos 3 phase 4 wire CT operated energy meter, 5-10A, Acc. Class 1. | | | |
| | 2 Set of phase indicating lamps, LED type, RYB. | | | |
| | 2 Set of 2A 10kA C curve SP control MCB | | | |
| | 1 Set of 400/5A, Class 1.0, 15VA, Cast Resin CT for metering. | | | |
| | 1 Set of 400/5A, Class 1.0, 15VA, Cast Resin CT for metering. | | | |
| | 1 No. AMF relay with all requirement for the automatic operation of the DG set. | | | |
| | 2 set Analogue Voltmeter, Acc class 1, with voltmeter selector switch | | | |
| | 6 nos of Analogue Ammeter, Acc. Class 1 | | | |
| | 2 set low set earth fault relay for the transformer and DG set. | | | |
| | OUTGOING | | | |
| | 2 Nos. 125A, TPN, 35kA, MCCB with Thermal Magnetic release, Ics=Icu, having adjustable over load & short circuit protection. | | | |

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|---|---|----------|-------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | 1 Nos. 100A, TPN, 25kA, MCCB with Thermal Magnetic release, Ics=Icu, having ajustable over load & short circuit protection. | | | |
| | Provision for capacitor bank feeder | | | |
| | Spare 2 nos | | | |
| | 1 Nos. 63A, TPN, 25kA, MCCB with Thermal Magnetic release, Ics=Icu, having ajustable over load & short circuit protection. | 1.00 | Job | |
| XIV | WATER PUMP | | | |
| 67 | Supply, Installation, testing & commissioning of Horizontal Monoblock pump set having CI casing & CI impeller, suitable rated 3 phase electric motor complete with all required accessories for discharge of 200 lpm and head 15m. The system shall have Pressure guage on delivery line with isolation cock, level controller. Pumps should be inclusive of vibration elimination pads,base frames etc. The motor shall be provided with suitable rating DOL starter with O/L relay, single phase preventer, over & under voltage relay. | 1.00 | No | |
| 68 | Providing and fixing 32mm NB PVC pipe conforming to IS Standards (pressure 10kg/cm2) complete including all fittings, fixtures, cutting, chasing in walls and making good the walls, testing of joints, concealing the pipes wherever required complete with all required accessories. | 140.00 | Metre | |
| 69 | Providing and fixing 32mm NB gun metal gate valve with CI wheel of IS marked approved quality (Screwed End) with all required accessories. | 100.00 | No | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| XV | YARD LIGHT | | | |
| 70 | Supply & installation of Hot dipped Galvanised tubular swaged pole of 90 micron zinc coating with tensile strength 410 Mpa of overall length 9 Mtrs long single arm swan neck as per IS 2713. The pole shall have outside dia & thickness as 140x5.40, 115x4.5, 89x3.25mm, & sectional length 5.00+2+2 Mtrs alongwith 300 x 300 x 10 mm MS base plate welded at bottom.The pole shall have planting depth of 1.5 mtr & erected in PCC 1:2:4. The pole shall be provided with suitable size polycarbonate loop in loop out box. The loop in loop out box shall have 3 phase power connector or bus bar of required current rating for loop in loop out of cable, 4A C curve SP MCB. Required dia GI pipe shall be provided in the foundation for taking cable in & out from the pole. The cost of the civil foundation shall be measured along with civil items. | 5.00 | Each | |
| 71 | Supply, installation, testing & commissioning of IP66,150W MH street lighting, with die cast aluminium housing, anodised aluminum reflector, toughened glass, stainless steel toggle, heavy duty copper ballast, pf capacitor, 1x150W MH lamp etc as required. The light fitting shall be suitably installed with all required accessories to poles. The item shall include 3C x 1.5 sqmm PVC insulated copper unarmoured cable for connecting between the luminaire and the loop in loop out box. (Similar to Wipro WSH 71150 or equivalent). | 5.00 | Nos | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 72 | Supply of 15" long rubber Hand gloves 15KV grade of approved make | 2.00 | Pair | |
| 73 | Supply and fixing anodised aluminum glass framed shock treatment chart. | 1.00 | Job | |
| 74 | Supply & laying ISI marked electrical grade chequered type rubber mat of size 2m x 1m x 6 mm suitable for 415V power supply. | 4.00 | Nos | |
| XVI | SMOKE DETECTION & FIRE ALARM SYSTEM (ADDRESSABLE) | | | |
| 75 | Supply, Installation & Testing of GE / Morley/Honey well make addressable Photoelectric type Smoke detector for below false ceiling with base plate. | 20.00 | Nos | |
| 76 | Supply, Installation & Testing of GE / Morley/honeywell make addressable photoelectric type Heat detector with base plate | 20.00 | Nos | |
| 77 | Supply, Installation & Testing of Response Indicator | 10.00 | Nos | |
| 78 | Supply, Installation & Testing of Addressable typr Electronic Hooter complete with line matching transformer & connected to the main control panel amplifier to produce alter / evacuation tone for public | 3.00 | Nos | |
| 79 | Supply, Installation & Testing of of Addressable type Manual Call Point with a glass cover marked " IN CASE OF FIRE BREAK GLASS" | 3.00 | Nos | |
| 80 | Supply, Installation, Testing & commissioning of Fault Isolator module | 3.00 | Nos | |
| 81 | Supply of Cable (2cx 1.5 Sq mm cu Ar Cable) (Red colour only) with necessary accessories and hardware etc. | 600.00 | Rmt | |

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|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 82 | Laying of Cable (2cx 1.5 Sq mm cu Ar Cable) on surface with necessary accessories and hardware etc. as required | 600.00 | Rmt | |
| 83 | Supply, Installation, Testing & commissioning of Two Loop non - expandable addressable type Fire Alarm Panel with Battery backup with capacity for 99 addressable devices including event logging facility, printing facility, interface feature & including all necessary hardware & accessories, etc. complete as required. (GE / Morley) | 1.00 | Nos | |

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|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| XVII | LIFT | | | |
| 84 | Supply, installation, testing & commissioning of electric traction type elevator of following capacity and type suitable for operation on 415 V, 3 phase, 50 Hz AC supply, having AC variable voltage and variable frequency type traction control, with machine room, speed of 1.00 Mtr/sec, electromagnetic brake system, simple operations, operating control panel with luminous buttons, overload warning indicator, battery operated alarm bell, LED type emergency light, intercom suitable for hook up to EPABX, infrared ray sensing door protection for full height, reverse phase relay on controller, fireman's switch at ground floor, digital car positions indicator in car and at all positions indicator in car and at all floors with Up/DOWN direction, all signal fixtures in stainless steel faceplates, light fixtures, ventilation fan, etc complete with all accessories including automatic rescue device in the event of power failure etc., as required. | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | The traction motor placed directly above the hoistway in Machine Room and elevator shall be of geared type with travel height of 12.mtrs. (suitable for lift well size 3000mm (D)X 2350m(W)) complete as per technical specification, simplex full collective operation with/without attendant. Car/Hoistway Entrance, protected by stainless steel hairline doors and clear side(telescopic) opening min 1200mm x 2000mm height. Complete with necessary scaffolding, electrical panel, logic control panel and shaft lighting etc required for the erection of the elevators | | | |
| | 8 passengers (Minimum) capacity (minimum 940 Kgs) elevator, 3 stops & 3 openings car size of 1300mm wide x2400mm deep x 2300mm Height Inside dimensions and entrance at front side on all the serving floors, provided with matt finish stainless steel panel on all four side, stainless steel mirror finish ceiling, stainless steel hand rail on three sides complete as per specifications. | 1.00 | each | |
| XVIII | CENTRALISED UPS SYSTEM (POWER BACK UP SYSTEM) | | | |
| 85 | Supply, Installation, Testing & Comissioning of 10 KVA Online UPS (3 i/p – 1 o/p) including :- | | | |
| | Double Conversion Technology with Static Bypass For 30 minute backup to the stated load complete with all necessary hardware & accessories, etc. complete as required. | | | |

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|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | Required number of SMF Battery - 12 V for Battery backup upto 30 minutes With Battery Rack and Cables along with necessary hardware & accessories, etc. complete as required. | | | |
| | Network management card (OC WAP Card) for the UPS to connect to the server. (If required.) | | | |
| | Delivery & Installation charges - Inclusive | | | |
| | Full set as above | 2.00 | Set | |
| XIX | AIR CONDITIONIG SYSTEM | | | |
| 86 | Supply of Air Cooled High Wall mounted Split Air Conditioner of following capacities consisting of high wall mounted type room unit (fan coil) with cordless remote control, outdoor condensing unit comprising of enegy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, upto 4 m distance refrigerant copper piping with 13mm nitrile rubber insulation, comprising of 1" dia drain PVC pipe with insulation 5m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit 4m distance, out door unit MS stand, suitable stabilizer etc complete as required. Approved makes, AC :- Carrier/Voltas/Bluestar/Panasonic Approved makes - Stabilizer :- V Guard/Everest/Voltas | | | |
| a | 2TR minimum 3 star rated as per BEE | 9.00 | No | |
| b | 1.5TR minimum 5 star rated as per BEE | 6.00 | No | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| 87 | Installation, testing and commissioning of the above machines including fixing the outdoor unit on a raised platform/MS Stand as per manufacturers recommendation and fixing of room (fan coil) unit on wall, providing and making interconnection between room & condenser as per site conditions with first charge refrigerant gas. | 15.00 | No | |
| 88 | Supply, installation, testing and commissioning of suitable hard drawn copper refrigerant piping additional length for 1.5TR machines with 13 mm nitrile rubber insulation & suitable size electrical cabling interconnecting the condensing unit to evaporating unit for split units as per site condition. Approved makes :- Totaline/Piyush/Mandev | 50.00 | RM | |
| 89 | Supply & fixing of PVC drain pipe additional length of 25mm dia ISI marked, connecting the drain lines from the indoor units to floor sump, with 9mm nitrile rubber insulation as per specification | 50.00 | RM | |
| | Approved makes :- Any ISI marked | | | |

| Urban Health centre at Kuruchikuppam, Pondicherry | | | | |
|---|---|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| XX | APFC PANEL | | | |
| 90 | Supply, Installation, Testing & Commissioning of 125kVAR APFC panel, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, IP42, free standing, floor mounting, dust and vermin proof, powder coated, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extendable on both sides, including internal wiring with suitable size wires, rotary handle, spreaders etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification. | | | |
| | INCOMER | | | |
| | 1 No 315A, FP, 35kA, MCCB with Thermal Magnetic release, Ics=Icu, having adjustable over load & short circuit protection. | | | |
| | BUSBARS | | | |
| | 1 Set of 400 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy. | | | |
| | INSTRUMENTS | | | |
| | 1 No 3 phase Digital Multi function meter to read V, A, F with Acc class 1. | | | |
| | 1 Set of phase indicating lamps, LED type, RYB. | | | |
| | 1 Set of 2A 10kA C curve SP control MCB | | | |
| | 1 Set of 400/5A, Class 1.0, 10VA, Cast Resin CT for metering. | | | |
| | 1 no. 6 stage APFC relay | | | |
| | 5 set On, Off push button | | | |
| | 5 set On, Off LED type indication lamp | | | |

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|---|--|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | OUTGOING | | | |
| | 6 Nos. 63A, TPN, D curve, MCB | | | |
| | 2 Nos. 50kVAR MPP heavy duty capacitor with capacitor duty contactor & 7% detuned harmonic filter. | | | |
| | SPARE for 1 Nos. 25kVAR MPP heavy duty capacitor with 7% detuned harmonic filter directly connected. | 1.00 | Job | |
| XXI | PORTABLE CHEMICAL FIRE EXTINGUISHER | | | |
| 91 | Supply, installation, testing and commissioning of following types of extinguisher with provision of wall bracket (fixed with anchor fastner). | | | |
| a | ISI marked (IS:940) portable chemical fire extinguisher, water (gas pressure) type capacity 9 litres with gun metal cap and nozzle and complete in all respects including initial fill and wall suspension brackets | 5.00 | Nos | |
| b | ISI marked (IS:2171) Co2 water type fire extinguishers Fire Extinguisher with Gun Metal cap and nozzle and complete in all respects including initial fill and wall suspension bracket - 2 Kg | 5.00 | Nos | |
| c | Providing and fixing in position ABC type fire extinguishers of 5 liters capacity each. | 5.00 | Nos | |
| 92 | Supplying and installing at approved location approved make fire buckets of 24 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "FIRE" in black and gold. Cost shall be inclusive of providing MS stand duly painted over a coat of primer. | 2.00 | Nos | |
| | Total of Services - C | | | |

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|---|---------------------|----------|------|------------------------------|
| Sl.No | Description of Item | Quantity | Unit | Unit Rate in words & figures |
| | GRAND TOTAL (A+B+C) | | | |

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| Amount |
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