

CONSTRUCTION OF PG BLOCK AT ARMY COLLEGE OF DENTAL SCIENCES, SECUNDERABAD - SCHEDULE A -CIVIL

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------|------------------------|--|-------|----------|--------------------------------------|--------------------------------------|
| | | SHELL & CORE | | | | |
| | | EARTHWORK-A | | | | |
| 1 | 3-03001 | Surface excavation n.exc (not exceeding) 30 cm deep and averaging 15cm deep and getting out ® Soft / Loose soil | sqm | 1,438.29 | Rs. (Rupees:) | Rs. (Rupees:) |
| 2 | 3-03009A | Earth work in excavation by mechanical means (Hydraulic excavator) means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including C29 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5m, as directed by Engineer-incharge | cum | 1,316.22 | Rs. (Rupees:) | Rs. (Rupees:) |
| 3 | 3-03009A 3-03009B | Earth work in excavation by mechanical means (Hydraulic excavator) means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including C29 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5m, as directed by Engineer-incharge | cum | 448.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| 4 | 3-03009A 3-03009B | Earth work in excavation by mechanical means (Hydraulic excavator) means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including C29 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5m, as directed by Engineer-incharge | cum | 448.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| 5 | 3-03033 | Removing excavated material exc.1.50km but n exc.5km and directed. | cum | 645.75 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 6 | 3-03034 | Add to item 5 for each additional 1km or part thereof, beyond 5km upto tatla distance of 10km | cum | 645.75 | Rs. (Rupees:) | Rs. (Rupees:) |
| 7 | 3-03009 | Returning, filling in, including spreading, leveling, watering and well ramming in layers not exc 25cm for foundation. | cum | 740.52 | Rs. (Rupees:) | Rs. (Rupees:) |
| 8 | 3-03009 A 3-03009 . . | Earth work in excavation by mechanical means (Hydraulic excavator) means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including C29 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5m, as directed by Engineer-incharge | cum | 758.86 | Rs. (Rupees:) | Rs. (Rupees:) |
| 9 | 3-03045 | Moorum/red bajri filling in floors or pavings, laid in layers n exc. 15 cm thick, spread, levelled and rammed including watering | cum | 84.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| 10 | 3-03019 | Sand filling under floors or in foundations including watering and consolidation including watering, ramming, onsolidation | cum | 22.25 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -A | | | | | | - |
| ANTITERMITE TREATMENT -B | | | | | | |
| 11 | 3-03047 | Treating the bottom and sides of excavation at the rate of 5 liters of emulsion per square meter of surface area | sqm | 1,127.60 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 12 | 3-03048 | Treating the backfill in contact with foundation at the rate of 7.5 liters of emulsion per square meter of vertical surface (Area of the substructure in contact with backfill to be measured) | sqm | 1,148.29 | Rs. (Rupees:) | Rs. (Rupees:) |
| 13 | 3-03049 | Treating the top surface of filled earth at the rate of 5 liters of emulsion per square meter of surface | sqm | 1,148.29 | Rs. (Rupees:) | Rs. (Rupees:) |
| 14 | 3-03050 | Treating the soil under plinth protection at the rate of 5 liters of emulsion per square meter of surface area | sqm | 114.80 | Rs. (Rupees:) | Rs. (Rupees:) |
| 15 | 3-03051 | Treating the soil along with external perimeter of building at the rate of 2.25 liter of emulsion per meter of the perimeter wall | sqm | 131.14 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -B | | | | - |
| | | CRS Masonry-C | | | | |
| 16 | 6-06004 | Walling of random rubble, uncoursed (well bonded, bedded and solidly hearted) , built in CM 1:6 ALL COMPLETE | cum | 126.12 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -C | | | | - |
| | | CONCRETE WORKS-D | | | | |

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|---------------------|-------------------------|---|-------|----------|-----------------------------|-----------------------------|
| | PCC | | | | | |
| 17 | 4-04025 | 1:3:6 C2 Grade corresponding to M - 10 , retaining walls, sumps, lift wells etc., | cum | 90.77 | Rs. (Rupees:) | Rs. (Rupees:) |
| 18 | 13-13034 | Laying of 100mm thick PCC 1:3:6 type C2 over rammed earth filling for Floorings | sqm | 1,065.67 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -D | | | | | | - |
| | RCC STRUCTURE -E | | | | | |
| 19 | 4-04039 | Providing and laying CC of M 15 Grade 1:2:4 B0 Foundations, including rafts, footings, foundation beams; plinth beams; bases for columns, etc.; basement slabs, under-reamed piles and mass concrete | cum | 51.36 | Rs. (Rupees:) | Rs. (Rupees:) |
| 20 | 4-04066A | REINFORCED READY MIXED CEMENT CONCRETE in Foundation, including raft footings, foundation beams, plinth beams, bases for column etc., basement slabs, underreamed piles and mass concrete M-25 grade | cum | 533.58 | Rs. (Rupees:) | Rs. (Rupees:) |
| 21 | 4-04066B | REINFORCED READY MIXED CEMENT CONCRETE in Beams, cantilevers, lintels, columns pillars, piers, posts, struts, chullah hoods, stair case, arches, domes, vaults, shell roofs, arch ribs, folded plates, slabs, balconies, canopies, deck slabs etc. or in similar articles upto 5th floor level M-35 grade | cum | 797.73 | Rs. (Rupees:) | Rs. (Rupees:) |

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|-----------------------------------|------------------------|--|-------|----------|-----------------------------|-----------------------------|
| 22 | 4-04029 | Providing, cement concrete in roof kerbs or mud stops, rounded or chamfered on edges Ditto, in lintels upto 1.5m clear span, cills, steps; seismic and other similar bands, plinth courses, string courses, lacing courses, parapets and railings upto 60 cm in height, copings, kneelers, apex stones, bed plates, kerbs not provided for in Item 04028, water troughs and the like including weathering, slightly rounded or chamfered angles and throating, as directed - SHUTTERING INCLUDED | cum | 12.01 | Rs. (Rupees:) | Rs. (Rupees:) |
| 23 | 4-04053 | Reinforced cement concrete (design mix)in:- in Foundation, including raft footings, foundation beams, plinth beams, bases for column etc., basement slabs, underreamed piles and mass concrete M-25 grade | cum | 103.46 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL - E | | | | | | - |
| SHUTTERING (FORM WORK) - F | | | | | | |
| 24 | 7-07004 | Formwork to sides of concrete foundations, footings, bases of columns, raft and raft beams, sides and soffits (if any) of foundation and plinth beams: and similar work: vertical or to batter | sqm | 468.64 | Rs. (Rupees:) | Rs. (Rupees:) |
| 25 | 7-07005 | Formwork to faces of walls, retaining walls, abutments, parapets and staircase railing and similar work including attached pillasters, buttresses, etc.; vertical or to better | sqm | 95.52 | Rs. (Rupees:) | Rs. (Rupees:) |
| 26 | 7-07014 | Formwork to sides of pillars, posts, struts, piers, columns and stanchions | sqm | 1,492.43 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 27 | 7-07010 | Formwork to sides and soffits of floor or roof beams, beam haunchings, girders, bressummers, lintels, cantilevers, shelves including supports, overhangs, etc. also splays between floors and beams, etc | sqm | 998.94 | Rs. (Rupees:) | Rs. (Rupees:) |
| 28 | 7-07006 | Formwork to soffits of suspended slabs such as roof slabs, floor slabs, landings and similar work; not exceeding 200m thick (Horizontal or sloping) | sqm | 1,870.78 | Rs. (Rupees:) | Rs. (Rupees:) |
| 29 | MR | extra for Providing & fixing Double Height Shuttering Entrance areas (7.2 Mts) 3.60 mtr covers in line items including staggig cost , separate cost for balance 4.20 mtr staggig icluding all materials ,laboure ,complete. (PLAN AREA TO BE MEASURED FOR PAYMENT) | sqm | 216.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| 30 | 7-07011 | Formwork to staircases with sloping or stepped soffits including risers and stringers (excluding landing) | sqm | 70.83 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL - F | | | | | | - |
| 31 | MR | POST TENTIONING WORK -G POST TENSIONING WORKS : Design and Execution, of post tensioning works, including, decoiling the strands, cutting to the required lengths, supplying laying of HT strands sheathing (GI corrugated ducts 0.3mm thick) jointing with couplers, and inserting the strands, profiling, fixing live end anchorages, including the supply of stressing anchorages, suitable for 5-5 & 5-4 tendons, grout vents, making dead end anchorages, including flowering the strands, fixing tendon support bars, supervising the fixing of anti-bursting reinforcement, stressing the cables, end trimming, grouting the cables, with cement slurry, mixed with admixtures , with required tools, plants, and machineries. and consumables etc. (shuttering, concreting & reinforcement | sqm | 504.62 | Rs. (Rupees:) | Rs. (Rupees:) |

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|--|------------------------|---|-------|-------------|--------------------------------------|--------------------------------------|
| | | at all heights including all leads, lifts, coordination, with the post-tensioning agency, preparation of drawings, obtaining approval from the Employer / Architect etc. Rate to include providing water, power, cement and admixture for grouting, packing of sheathing and anchorages blockings, filling of recess pockets after stressing using grouts(cement slurry mixed with approved admixtures) including providing access to post tensioning at all heights including all leads, lifts etc., all complete and as approved and as directed by the Employer /Architect but excluding shuttering, concreting & reinforcement steel which shall be payable under respective items separately. Approved PT Agency Utracon Structural Systems pvt Ltd. The average consumption of HT Strand as per design | | | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -G | | | | | | - |
| REINFORCMENT STEEL-H | | | | | | |
| 32 | 10-10034 10-10035 | Porviding supplying & Laying TMT bars 6 mm dia and over,cut to length, bent to shape required, including cranking, bending spirally for hooping for columns, hooking ends and binding with the including mild steel wire (annealed) not less than 0.9mmdia or securing with clips quality conforming to IS 1786 (2008) | Kg | 1,17,976.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -H | | | | | | - |
| 33 | MR | Providing & Laying CINDER FILLING in Sunk slab including compacting manually with rammer and finishing true line & level at all floor level etc. complete as directed by Engineer in charge | CUM | 95.14 | Rs. (Rupees:) | Rs. (Rupees:) |
| 34 | 21-21004 | Demolishing and dismanteling Brickwork or stone/ boulder masonry, built in cement mortar or cement lime mortar including all quoins, arches, pillars, etc, but excluding ashlar facings, dressed stonework and precast concrete articles & getting unusable material out for the site & stacking usefull nricks & stones in site all complete | CUM | 24.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -J | | | | | | |
| Road connecting to Main entry-K | | | | | | |

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| 35 | 20A-20005 | Kankar or laterite, spread, rolled and consolidated to gradient and camber required 150 mm | sqm | 172.24 | Rs. (Rupees:) | Rs. (Rupees:) |
| 36 | 13-13122B | Providing and laying 60mm thick factory made chamfered edge cement concrete paver block of M-35 grade with approved colour, design & pattern as in footparth, parks, lawns, drive ways or light traffic parking etc., of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & Pattern over and including 50mm thick compacted bed of fine sand, compacting and proper embedding/ laying of inter locking paver blocks into the sand bedding layer through vibrator; connection by using plate vibrator, filling the joints with | sqm | 445.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -K | | | | | | - |
| BRICK WORK-L | | | | | | |
| 37 | 5-05010 | Brickwork with subclass 'B' bricks, straight or curved on plan exc 6m mean radius, built in 1:6 | cum | 338.37 | Rs. (Rupees:) | Rs. (Rupees:) |
| 38 | 5-05011 | Brickwork with subclass 'B' Modular bricks, straight or curved on plan to any radius in half brick thick walls, built in CM 1:4 | Sqm | 593.39 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -L | | | | | | - |
| PLASTERING -M | | | | | | |
| 39 | 14-14001 14-14004 14-14005 14-14018 | Supply and Rendering 15mm thick on fair faces of brick work or concrete surfaces and rendering is to be finished even and smooth (without using extra lime or cement) in CM (1:4) Sand-faced plaster as specified for special finishes For External Plastering | Sqm | 2,436.59 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 40 | 14-14001 14-14004 14-14005 14-14018 | Supply and Rendering 15mm thick on fair faces of brick work or concrete surfaces and rendering is to be finished even and smooth (without using extra lime or cement) in CM (1:4) Sand-faced plaster as specified for special finishes For External Plastering | Sqm | - | BLANK | |
| 41 | 14-14001 14-14005 | Supply and Rendering 10mm thick on fair faces of brick work or concrete surfaces and rendering is to be finished even and smooth (without using extra lime or cement) in CM (1:4) For Internal Plastering -walls | Sqm | 3,919.64 | Rs. (Rupees:) | Rs. (Rupees:) |
| 42 | 14-14001 14-14005 | Supply and Rendering 10mm thick on fair faces of brick work or concrete surfaces and rendering is to be finished even and smooth (without using extra lime or cement) in CM (1:4) For Internal Plastering - ceiling | Sqm | 2,182.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -M | | | | - |
| | | PARTITIONS WALLS-N | | | | |
| 43 | MR | Providing ,Supply & Installation of Aluminum partitions with 1.2 mm thick Aluminum sections of profile 45 MM X 65 MM powder coated with shade as approved. Partitions shall have nopan board of 12 mm thick laminated on both sides fixed to the aluminium Sections till 4' height from finished floor level and above 4' the partition to have 3' height toughened glass of 5 mm thick and above the glass & above 7" the partition shall have nopan board as provided at the bottom level of the partition upto roof in total 3 mtrs H. The Door for the same shall be with the same finish & specification with board at the lower level and the T glass at the top, mounted on the hinges, including all hard ware like towerbolt, lock and handles etc . all complete as per specification ,approved drawing & direction of Engineer-in-charge. | Sqm | 56.32 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -N | | | | |
| | | FINISHES | | | | |
| | | PAINTING-P | | | | |

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|------|---|---|-------|----------|-----------------------------|-----------------------------|
| 44 | MR | Providing & Applying high quality acrylic modified resin based texture of Dholpur/Red sand stone Pattern with anti algae and UV resistance properties to be applied as intermediate finish in desired pattern @ 43.04 kgs/10 sqm to form film of 1- 1.5 mm thickness after scrapping and properly cleaning the surface to remove loose particles from the plaster surface, followed by top coating with Premium Acrylic Smooth exterior paint with Silicone additives of required shade by two or more coats @ 1.43 litres/10 sqm, complete as the direction of Engineer -in-Charge. (RUNNING BRICK PATTERN) | Sqm | 1,696.12 | Rs. (Rupees:) | Rs. (Rupees:) |
| 45 | 15-15014E | Finishing External walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm | Sqm | 269.44 | Rs. (Rupees:) | Rs. (Rupees:) |
| 46 | 15-15014F MR | 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) H=7.20 mtr | Sqm | 180.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 47 | 15-15001 15-15005 14-14016 15-15014D | Preparing surfaces plastered or unplastered, Priming plastered and other surfaces with alkaliresistant priming paint and 3mm thick wall care putty on wall, Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work | Sqm | 3,303.55 | Rs. (Rupees:) | Rs. (Rupees:) |
| 48 | 15-15001 15-15005 14-14017 15-15014D | Preparing surfaces plastered or unplastered, Priming plastered and other surfaces with alkaliresistant priming paint and 3mm thick wall care putty on Ceiling, Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work | Sqm | 2,182.32 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 49 | 17-17019 | Bees-wax polishing on surfaces of any description, width or girth including cleaning and preparing the surface | Sqm | 124.83 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL - P | | | | - |
| | | FLOORING-Q | | | | |
| 50 | 13-13086 | M&L for Vitrified Ceramic tiles 10 mm thick of light shade (square/ rectangular) polished, area of each tiles not exceeding 0.36 sqm, in floors etc. set and jointed in neat cement slurry and pointed in white or coloured cement to match, over 25mm thick Screed Bed. | Sqm | 1,551.35 | Rs. (Rupees:) | Rs. (Rupees:) |
| 51 | 13-13022 | Granite (of any type) tiles 20mm thick machine cut, bedded and jointed with grey cement slurry and pointed with white cement with admixture of pigment to match the shade of granite stone including grinding and polishing complete | Sqm | 429.37 | Rs. (Rupees:) | Rs. (Rupees:) |
| 52 | 13-13083 13-13085 | Non - skid Ceramic tiles 7 to 8 mm thick (square/ rectangular) area of each tile exceeding 0.11 sqm but not exceeding 0.18 sqm, in floors etc. set and jointed in neat cement slurry and pointed in white or coloured cement to match and joint free non-skid tiles | Sqm | 67.62 | Rs. (Rupees:) | Rs. (Rupees:) |
| 53 | 13-13003 | 40mm thick Rough dressed sand stone slab flooring, laid dry but jointed and pointed in Cement mortar 1:3 | sqm | - | blank | |
| 54 | 13-13004 | 40mm thick Rough dressed sand stone slab flooring, bedded, jointed and pointed in cement mortar 1:3 in vertical surfaces (Risiers) | sqm | - | blank | |
| | | SKIRTING | | | | |

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| 55 | 13-13086 | M&L for Vitrified Ceramic tiles 10 mm thick of light shade (square/ rectangular) polished, area of each tiles not exceeding 0.36 sqm, in floors etc. set and jointed in neat cement slurry and pointed in white or coloured cement to match, over 25mm thick Screed Bed. - For Skirting | sqm | 59.85 | Rs. (Rupees:) | Rs. (Rupees:) |
| DADOING | | | | | | |
| 56 | 13-13023 | 20mm thick Granite (of any type) tiles machine cut, in skirting/dado laid over cement screed and jointed with grey cement slurry, and pointed with white cement with admixture of pigment to match the shade of granite stone including grinding and polishing complete | sqm | 244.23 | Rs. (Rupees:) | Rs. (Rupees:) |
| 57 | 13-13081 | Glazed ceramic tiles in vertical surface 350x 250x 7 mm/ 450X 350X 7mm thick set and jointed in neat cement slurry and pointed in white or colour cement to match | sqm | 273.86 | Rs. (Rupees:) | Rs. (Rupees:) |
| 58 | 14-14009 14-14010 | Screed bed or bedding layer or mortar 15mm layer of mortar 25mm thick for laying floor finishes | sqm | 2,048.33 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -Q | | | | | | - |
| JOINERY-R | | | | | | |
| 59 | MR | Providing and fixing 10 mm thick frameless toughened fixed glass both sides & top & 10 mm thick frameless toughened double door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, with all hardware accessories like Door handle, lock and stopper, ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. | sqm | 9.54 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 60 | 8-08022 8-08025 | Supply & Fixing Flush doors 30mm thick solid core construction, with block board core and plywood face panels, commercial type on both sides covered with decorative face veneer with lipping/frame to match | sqm | 39.15 | Rs. (Rupees:) | Rs. (Rupees:) |
| 61 | MR | Supply, Fixing and installation GI Steel FIRE DOORS of Thickness of 0.8 mm and Frame of 1.2 mm thick made up of PCGI sheet with Pure polyester powder coating. Leaf thickness will be 46mm and 100 * 57 mm infill will be HONEYCOMB. . with all accessories S.S. Ball Bearing Butt Hinges 100x75x3mm Dorset, Standard Arm Door Closer- Dorset, Mortice dead lock both side key Dorset, View glass 200*3000 mm Single glazed, SS D handles both side 250mm of approved make, 1. Double Door 2000*2100mm ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. a)FD - Fire Door 1500*2100mm | sqm | 4.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 62 | MR | Supply, Fixing and installation GI Steel FIRE DOORS of Thickness of 0.8 mm and Frame of 1.2 mm thick made up of PCGI sheet with Pure polyester powder coating. Leaf thickness will be 46mm and 100 * 57 mm infill will be HONEYCOMB. . with all accessories S.S. Ball Bearing Butt Hinges 100x75x3mm Dorset, Standard Arm Door Closer- Dorset, Mortice dead lock both side key Dorset, View glass 200*3000 mm Single glazed, SS D handles both side 250mm of approved make, 2. Double Door 2000*2100mm ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. a)FD1 - Fire Door 2000*2100mm | sqm | 1.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 63 | 8-08101 | Supply & Fixing Factory Made Solid PVC Moulded Door Shutter, 28 to 30mm thick (stiles), with 2, 4, or 6 raised panel design with 2mm thick Moulded PVC Sheet on the front face & 2mm plain colour PVC sheet on back face, supplying & fixing in frame at site as per specification & drawing with wood free EPS | sqm | 33.08 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 64 | 8-08001 | Supply & Fixing 1st class Hard wood Plain, solid, straight chowkats and frames, wrought, framed rebated on the solid, rounded or chamfered, put together with glue pinned at joints | cum | 0.61 | Rs. (Rupees:) | Rs. (Rupees:) |
| 65 | 8-08095 | Solid PVC Door Frame of size 50mm x 47mm made out of 5mm plain colour PVC sheet reinforced with M.S. Square tube, suppling & fixing in opening as per specification & drawing | Rmt | 113.85 | Rs. (Rupees:) | Rs. (Rupees:) |
| BUILDERS HARDWARE | | | | | | |
| 66 | 9-09027 | Supply & Fixing Cold Rolled Mild steel Heavy weight ISI marked (IS-1341) Butt Hinges of 125mm | Each | 192.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 67 | 9-09083 | Supply & Fixing Aluminum anodized type 4 ISI marked (IS-208) of Door Handle of 75mm | Each | 24.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 68 | 9-09004 | Supply & Fixing Aluminium anodised, barrel tower bolts of extruded section and fixed tower bolt a)150mm length | Each | 24.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 69 | 09-09019 | Supply & Fixing Aluminum alloy, anodised, sliding door bolt with hasp , staple (bolt type) of 250mm length and fixing clips of sheet, cast or extruded sections and fixing bolts and sliding bolts of extruded sections or castaluminium alloy and fixed All floors - Doors | Each | 24.00 | Rs. (Rupees:) | Rs. (Rupees:) |

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| 70 | 09-09149 | Supply & Fixing Floor door stopper of aluminum alloy body and tongue, anodized, with hard drawn steel spring. Fixed in floor - 150mm All floors - Doors | Each | 18.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -R | | | | | | - |
| UPVC WINDOWS & VENTILATORS-S | | | | | | |
| 71 | MR | Providing ,Supplying & Fixing uPVC Windows 1.50 x 1.50mts with 5mm clear Toughened glass (V7 or equivalent & above) Sliding window series 2.5TRACK 2PANEL SLIDING WINDOW WITH SS MESH Profiles TRACK - AP-102 or (equivalent & above) TRACK RI - APR-101-102-103-203- 1.2MM or (equivalent & above) SLIDING RI - APR-104 -1.5MM or (equivalent & above) FLYSCREEN SASH - AP-108 or (equivalent & above) INTERLOCK - AP-106 or (equivalent & above) SLIDING SASH - AP-104 or (equivalent & above) Accessories FLYSCREEN SASH ROLLER - FLY MESH ROLLER SLIDING SASH ROLLER - SINGLE WHEEL WITHOUT GROOVE HANDLE TYPE - SLIDING TOUCH LOCK LEFT - WHITE HANDLE TYPE - SLIDING TOUCH LOCK RIGHT - WHITE ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. | sqm | 121.50 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------|------------------------|--|-------|-------|--------------------------------------|--------------------------------------|
| 72 | MR | Providing ,Supplying & Fixing uPVC Windows 1.20 x 1.50mts with 5mm clear Toughened glass (V7 or equivalent & above) Sliding window series 2.5TRACK 2PANEL SLIDING WINDOW WITH SS MESH Profiles TRACK - AP-102 or (equivalent & above) TRACK RI - APR-101-102-103-203- 1.2MM or (equivalent & above) SLIDING RI - APR-104 -1.5MM or (equivalent & above) FLYSCREEN SASH - AP-108 or (equivalent & above) INTERLOCK - AP-106 or (equivalent & above) SLIDING SASH - AP-104 or (equivalent & above) Accessories FLYSCREEN SASH ROLLER - FLY MESH ROLLER SLIDING SASH ROLLER - SINGLE WHEEL WITHOUT GROOVE HANDLE TYPE - SLIDING TOUCH LOCK LEFT - WHITE | sqm | 9.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 73 | MR | Providing ,Supplying & Fixing uPVC Fixed (Ribbon) Windows 3.03 x 2.55mts with 6mm clear Toughened glass (V7 or equivalent & above) Casement window series Profiles OUTER - AP-202 or (equivalent & above) MULLION - AP-206 or (equivalent & above) COUPLER - AP-113 or (equivalent & above) OUTER RI - APR-202 -1.5MM or (equivalent & above) MULLION RI - APR-206 -1.5MM or (equivalent & above) ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. | sqm | 7.73 | Rs. (Rupees:) | Rs. (Rupees:) |
| 74 | MR | Providing ,Supplying & Fixing uPVC Ribbon Windows 15.43 x 2.60mts with 6mm clear Toughened glass (V7 or equivalent & above) Casement window series FIXED WINDOW Profiles OUTER - AP-202 or (equivalent & above) MULLION - AP-206 or (equivalent & above) OUTER RI - APR-202 -1.5MM or (equivalent & above) MULLION RI - APR-206 -1.5MM or (equivalent & above) COUPLER RI - APR-501-502-2.0MM or (equivalent & above) COUPLER - AP-501 or (equivalent & above) ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. | sqm | 40.11 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------|------------------------|---|-------|-------|---------------------------------------|---------------------------------------|
| 75 | MR | Providing ,Supplying & Fixing uPVC Ventilators 0.60 x 0.60mts with 5mm Frosted Toughened glass (V7 or equivalent & above) Casement window series Profiles OUTER - AP-201 or (equivalent & above) OUTER RI - APR-201 -1.2MM or (equivalent & above) CASEMENT SASH - AP-204 or (equivalent & above) CASEMENT RI - APR-204 -1.5MM or (equivalent & above) Accessories HANDLE TYPE - COCKSPUR HANDLE RIGHT - WHITE HINGE - FRICTION STAY 14" - UPVC HW/STAINLESS STEEL ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. | sqm | 4.68 | Rs. (Rupees:) | Rs. (Rupees:) |
| 76 | MR | Providing ,Supplying & Fixing uPVC fixed,open window- 0.82 x 2.85mts with 5mm clear Toughened glass (V7 or equivalent & above) Casement window series SINGLE OPEN CASEMENT WINDOW WITH TOP AND BOTTOM FIXED Profiles OUTER - AP-201 COUPLER - AP-113 OUTER RI - APR-201 -1.2MM CASEMENT SASH - AP-204 CASEMENT RI - APR-204 -1.5MM Accessories HINGE - 2D HINGES - UPVC HW/BUTT HINGES WHITE HANDLE TYPE - CASEMENT ESPAG HANDLE - WHITE ESPAG MATERIAL - CASEMENT/??MM | sqm | 21.03 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -S | | | | - |
| | | WATER PROOFING-T | | | | |
| 77 | MR | Water Proofing Treatment to Toilets & OHT 10000D+25000 tire ltrs on terrace Providing & applyingwaterproofing for the Toilets & OHT's by Surface method in two layers in cement mortar 1:4 of thickness 35 mm for floor, 25 mm for walls till floor lvl. and 18 mm till 300 mm above floor level with water proof admixture as per manufacturer's specification approved by consultants with a minimum performance guarantee of 10 years (BASF/Fosroc chemicals /Nippon/Asian paints/mapei or equivalent) | sqm | 98.96 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|--------------------------------|------------------------|--|-------|----------|--------------------------------------|--------------------------------------|
| 78 | MR | waterproofing Treatment for RCC ROOF Providing waterproofing for Terrace by (brick coba/membrane systems) of average thickness as per the approved drawing , specification with required water proof admixture as per manufacturer's specification approved by Consultants with a minimum Guarantee period of 10 years. Cost to include Cement slurry with waterproofing compound applied over the RCC surface after cleaning the surface with wire brush and water. Laying of brick coba/membrane layers as specified to necessary gradient and joints filled with CM 1:1 with waterproofing compound.Treatment to continue along parapet for 300mm height in shape of round wata, curing etc., Cost to include the treatment along parapet and Nos. measurements will be accounted for the parapet treatment - all complete as per the | sqm | 747.80 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL - T | | | | | | - |
| RAILING'S & GATES-U | | | | | | |
| 79 | 08-08046 | 1st class Hard wood Hand rails 100 x 75 mm rounded or shaped with splayed faces in straight lengths and fixed - Staircase | Rmt | 24.15 | Rs. (Rupees:) | Rs. (Rupees:) |
| 80 | 10-10007 | Supplying & Fixing Mild Steel Framed work such as grills, gratings, etc.. with ends of bars shouldered and/or riveted, or forged into spikes; framed guard bars; barred iron doors; ladders; framed balusters; walk ways; railings ; framework of water tanks and similar work conforming to Fe.290.Gde-E-165 | kg;s | 326.56 | Rs. (Rupees:) | Rs. (Rupees:) |
| 81 | 10-10007 | Supplying & Fixing Mild Steel Framed work such as grills, gratings, etc.. with ends of bars shouldered and/or riveted, or forged into spikes; framed guard bars ; barred iron doors; ladders; framed balusters; walk ways; railings; framework of water tanks and similar work conforming to Fe.290.Gde-E-165 | kg;s | 1,300.09 | Rs. (Rupees:) | Rs. (Rupees:) |
| 82 | 10-10048 | Supplying & Fixing Framed work as in doors or gates of angle or other section with gusset plates, rails, braces, etc., complete, drilled for fixing of steel sheeting or other covering. Doors, etc. to be prepared for hanging or sliding with and including either hooks and hinges or steel hanging door fittings (exclusive of steel sheeting or other covering, running rails and guides) and hanging; also fastening and fixing complete | kg;s | 1,200.00 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------------------------------|------------------------|---|-------|-------|--------------------------------------|--------------------------------------|
| 83 | MR | Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge & approved drawings all complete,900mm H Vertical Posts : 25x50 RHS Horizontal Pipes : 40x40 SHS | RMT | 34.92 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -U | | | | | | - |
| ELEVATION TREATMENT-V | | | | | | |
| 84 | MR | Providing and fixing Clay Jaali, also called Terracotta jaali or patterned block of 8 inches x 8 inches & width 2.5" with 15mm to 20 mm tile wall thickness made 100% naturally made from red clay of beautiful and appoved floral patterns, geometric lines, squares in elevations as per approved drawings including fixing with with epoxy resin based adhesive, including all materials ,tiles,adhesives,,scaffolding ,laboure , cleaning etc ,all complete as per specification ,approved drawing & direction of Engineer-in-charge | sqm | 45.36 | Rs. (Rupees:) | Rs. (Rupees:) |
| 85 | MR | Providing fixing & Arrangement of THE PLANTSHOP Indoor vertical garden system with drip irrigation with the following Material: PP and PET with good porosity (environmentally friendly material) Panel Material: Plastic composite material (which provide good strength and good resistance to weathering) Cup size/pocket size: 6" *6" (customized) Frame Material: Aluminum with 2mm gauge Bolts & Nuts: SS(with stand to corrosion and weathering) No. of plants /sft : 4 (to be customized) Color: Black including all materials ,required suitable plants ,good earth suitable for plantations,scaffolding , laboure , cleaning , provision for water intake etc ,all complete as per specification ,approved drawing & direction of Engineer-in-charge. | sqm | 43.20 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|---------------------|------------------------|---|-------|----------|--------------------------------------|--------------------------------------|
| 86 | MR | <p>Supplying, Providing, fabricating, assembling and erection of PVC/ Cross Link PVDF composition of TX30 Type lcoated composite membrane with a top surface lacquered with a multi-layered Cross Link PVDF coating as per the specifications provided & as per conceptual drawing. The coated composite material should have minimum tensile strength of 4300 / 4300 N/50 mm and tear strength of 550 / 500 N with Polyvinylne Duroflouride coating and having weight of 1050 g/sqm This work should include raw material, patterning, forming, cutting, welding, fixing and installation with GI cables, flashing,hardware etc. including lifts up to all heights, tools and plants, and necessary scaffolding etc. required for all operations. Warranty of the membrane should be minimum of 10 Years.</p> <p>Membrane warranty to be provided by membrane/fabric manufacturer to the end client or main contractor of the building.</p> <p>Manufacturers:- Serge Ferrari -France or equivlant</p> <p>Tensioned fabric structure with one coat of primer and two coats of enamel paint includes.</p> <ul style="list-style-type: none"> • Steel design • Steel erection • Painting as per drawings approved • Fabric Design • Procurement • Patterning • Plotting, cutting& high frequency welding to make final installed membrane. • Swaged end fittings, tensioning hardware and C238 all necessary accessories. • Membrane installation. <p>,all complete as per specification ,approved drawing & direction of Engineer-in-charge.</p> | sqm | 106.24 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | <ul style="list-style-type: none"> • Steel design • Steel erection • Painting as per drawings approved • Fabric Design • Procurement • Patterning • Plotting, cutting& high frequency welding to make final installed membrane. • Swaged end fittings, tensioning hardware and C238 all necessary accessories. • Membrane installation. <p>,all complete as per specification ,approved drawing & direction of Engineer-in-charge.</p> | | | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL -V | | | | | | - |
| | | ROADS | | | | |
| 87 | 3-03001 | Surface excavation n.exc (not exceeding) 30 cm deep and averaging 15cm deep and getting out | sqm | 1,083.60 | Rs. (Rupees:) | Rs. (Rupees:) |
| 88 | 3-03004 3-03005 | Excavating over areaa, not exceeding 1.5 m deep and getting out in soft/loose soils | cum | 216.72 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------|------------------------|---|--------|--------|--------------------------------------|--------------------------------------|
| 89 | NON-SSR | M & L for supplying of moorum from out side of the MoD land for formation of embankment, and earthen shoulders with all the leads, lift, transportation to site, spreading, grading to requird slope and compaced all as specified. | cum | 216.72 | Rs. (Rupees:) | Rs. (Rupees:) |
| 90 | 3-03031 3-03032 | Removing excavatged material exceeding 500 mts but not exceeding 1.5 Kms and depositing where directed for soils. | cum | 162.54 | Rs. (Rupees:) | Rs. (Rupees:) |
| 91 | 20A-20027 | Rolling and consolidation formation of surfaces in cutting rolling power roller exceeding 8 tonne and not exceding 12 tonne viberatory power roller. | 10 sqm | 696.60 | Rs. (Rupees:) | Rs. (Rupees:) |
| 92 | 20A-20001 | M&L for Soling or sub base 150mm thick with broken boulders or quarry stone granite filled surface formed and rolled consolidated reqired gradient and camber. | 10 sqm | 696.60 | Rs. (Rupees:) | Rs. (Rupees:) |
| 93 | NON-SSR | Wet Mix Macadam 150mm thk (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.) | Cum | 100.62 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------|------------------------|--|--------|--------|--------------------------------------|--------------------------------------|
| 94 | 20A-20015 | Preparing Surfaces by brushing with wire brushes for removing caked mud etc .. sweeping with brooms and finally fanning the cleaned surface with gunny bags to remove all loose dirt etc as per instruction of engineer-in charge. | 10 sqm | 645.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 95 | 20A-20016 | M & L using applying evenly a priming tack coat with bituminous primer @10Kgs/10Sqm - Grade of VG-10 | 10 sqm | 645.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 96 | 20B-20071 | M&L bituminous premix semi dense asphaltic concrete 40mm consolidated thick with 5.5% binder content by wt of total mix, rolled and compacted to required camber and gradient.- Grade of VG-30 | 10 sqm | 645.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 97 | 4-04025 | M & L for Plain Cement concrete 1:4:8 using 40 mm HBG Metal D2 type, in foundations, filling and mass-concrete | cum | 11.18 | Rs. (Rupees:) | Rs. (Rupees:) |
| 98 | 4-04028 | Providing cement concrete in kerbs of rounded or chamfered on edges of the road (400 x 200 x 150) | cum | 19.35 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -X | | | | - |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|------|------------------------|---|-------|--------|--------------------------------------|--------------------------------------|
| 99 | 2.1 | Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure). | cum | 87.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 100 | 2.2 | Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment). (Good earth shall consist of a free draining organic soil from horizons less than 300mm from the original surface, of a workable crumbly and lump free loamy character and shall contain no grass or weed growth of any kind or other foreign material or stones exceeding 25mm in diameter. Total stone content shall be no greater than 5% by volume. A 1 litre sample with back up soil test data is required before supply, to be approved by EIC. Soil should conform to the following parameters: pH 5.5 - 7.8, Electrical conductivity 1:2.5 (w/v), Soil-water extract not | cum | 76.13 | Rs. (Rupees:) | Rs. (Rupees:) |
| 101 | 2.3 | Supplying and stacking sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment). | cum | 10.88 | Rs. (Rupees:) | Rs. (Rupees:) |
| 102 | 2.5 | Rough dressing the trenched ground including breaking clods. | sqm | 290.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 103 | 2.6 | Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation. | sqm | 290.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 104 | 2.7 | Fine dressing of the ground. | sqm | 290.00 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.NO | MES SoR-2020 & NON-SoR | Description of the item | Units | Qty | Rate IN Rs. | Amount in Rs. |
|-------|------------------------|--|-------|-------|--------------------------------------|--------------------------------------|
| 108.2 | | Plumeria dwarf | NOS | 27.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 109 | | Supply & placing of Palms - well developed, well developed, disease free (Poly bag size - 18"x 18") Palms shall have heights as either 1.2m-1.5m. For single stemmed palms, the clear trunk height shall be atleast 80% of specified height, and stem girth shall be of dimension normally found for palms for the stem height and species specified. Acceptable tolerances to variations in stem height shall be +200mm or - 200mm from the height specified in the Bills of Quantities. The heads of palms shall be well balanced with at least 7 leaves and a healthy growing apical shoot all free from pest and disease. Rootball dimensions shall be 450mm diameter x 450mm depth. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC | | | | |
| 109.1 | | Royal Plam | nos | 27.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 110 | | Supply of Ground covers / creepers - well developed, min. 0.15m high, in polybag of 5"x7" size, disease free. All groundcover species shall be evenly balanced to allow equal growth in all directions. Plants shall have fully developed roots and leaves. Rooted cuttings will not be accepted. All plants to be container grown. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC | | | | |
| 110.1 | | Wedelia trilobata (WETR) [0.3] | nos | 50.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | SUB TOTAL -Y | | | | |
| | | SUB TOTAL -A+B+C+D+E+F+G+H+J+K+L+M+N+P+Q+R+S+T+U+V | | | | - |

| S.No | Description | Unit | Qty | Rate | Amount |
|----------|---|------|-----|--------------------------------------|--------------------------------------|
| | PART A: SANITARY FIXTURES AND CP FITTINGS | | | | |
| A | Sanitary Installations | | | | |
| 111 | Supply, Installation and commissioning approved make Floor mounted EWC model 'P' or 'S' trap with dual flush plastic cistern fixed on EWC with all internal parts of dual flush cistern, ultra solid seat cover of approved make with rubber buffer and cap 15 mm angle stop cock 450 mm long PVC inter connection pipe wall flanges all of approved make etc. complete for finished item of work in all respects: White Colour | Each | 16 | Rs. (Rupees:) | Rs. (Rupees:) |
| 112 | Supplying & Fixing Indian Vitreous China wash basin, white, flat back, size 580x450mm (for Hospital use) excluding taps, waste, chain and plug and porcelain stopper conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated 15mm Pillar Tap of 1st quality Indian make 400 grams Jaquar/ Cera/ Esso or equivalent complete with standard CI brackets including wooden block: 660 x 460 mm | Each | 13 | Rs. (Rupees:) | Rs. (Rupees:) |
| 114 | Supplying & fixing S&F sinks made of stainless steel 1mm thick kitchen or laboratory with plugs, washers and wastes; including bedding in cement mortar on to dwarf wall or including fixing cantilever brackets and connecting union to pipe, overall size 495mm x 420mm bowl size 410mm x 330mm x 160mm → including Labour Charges | Each | 26 | Rs. (Rupees:) | Rs. (Rupees:) |
| 116 | Supply & Fixing of Towel Ring of PTMT fixed with and including Chromium plated brass screws and wooden/plastic cleats (Minimum weight 90gms) | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|--------------------------------------|--------------------------------------|
| 117 | Supplying and fixing 600mmx450mm bevelled edge mirror of selected quality glass, mounted on 6mm thick AC building board or commercial plywood and fixed to wooden plugs with chromium plated brass screws and cup washers → | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 118 | Supply & fixing of toilet paper holder with 7 years warranty: Chrome plated | Each | 16 | Rs. (Rupees:) | Rs. (Rupees:) |
| 119 | Supply & Fixing of Bibcock cum Health Faucet with 1m long tube and wall hook of Jaquar Florentine(Quarter turn) series, Chrome Finish with 7 years warranty | Each | 16 | Rs. (Rupees:) | Rs. (Rupees:) |
| 120 | Supplying & Fixing white glazed Vitreous China bowl urinal flat back 1st quality conforming to IS:2556-1995 with standard C.P. Spreader of overall size 95 x 95 x 57 mm conforming to IS:2556-Part6, Sec-6-1974 fixed with screws complete Indian make (HSW/Parry/JAQUAR) : 430 x 370 x 340 mm (minimum) mm Catridge type | Each | 18 | Rs. (Rupees:) | Rs. (Rupees:) |
| 121 | Liquid soap container of PTMT fixed with and including Chromium plated brass screws and wooden/plastic cleats. (Minimum weight 105gms) | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 122 | Supply & fixing Angle stop valve of PTMT any colour high pressure screwed for iron pipe and fixed, (Minimum weight 15mm-90gms)→ | Each | 3 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No | Description | Unit | Qty | Rate | Amount |
|--|---|------|-----|-----------------------------|-----------------------------|
| 124 | Supply & fixing of long body Bib tap standard of PTMT any colour high pressure screwed for iron pipe and fixed. (Minimum weight 15mm-120gms | Each | 26 | Rs. (Rupees:) | Rs. (Rupees:) |
| 126 | Supplying and fixing of Vitreous china urinal partition white of size 310x700 mm. | Each | 15 | Rs. (Rupees:) | Rs. (Rupees:) |
| 127 | Supplying & Fixing of Hand Drier Utec make UT508/Euronics make EH22NW ABS | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 128 | Supplying ,fixing, testing and commissioning of stainless steel drinking water cooler with storage capacity of 80-100 ltrs all complete | nos | 3 | Rs. (Rupees:) | Rs. (Rupees:) |
| Total | | | | | - |
| PART –B: PVC SOIL,WASTE,VENT PIPES AND FITTINGS (INTERNAL) | | | | | |
| 129 | Supplying & fixing of 75 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm - Prince/Ashirwad or any ISI Brand with labour charges | Each | 30 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|--------------------------------------|--------------------------------------|
| 130 | Supplying & fixing of 75 mm dia 3 M Double Socket PVC/SWR pipe -6 Kg/sq.cm - Prince/Ashirwad or any ISI Brand with labour charges | Each | 78 | Rs. (Rupees:) | Rs. (Rupees:) |
| 131 | Supplying & fixing of 110 mm dia 3 M Single Socket PVC/SWR pipe - 4 Kg/sq.cm - Prince/Ashirwad or any ISI Brand with labour charges | Each | 18 | Rs. (Rupees:) | Rs. (Rupees:) |
| 132 | Supplying & fixing of 110 mm dia 3 M Double Socket PVC/SWR pipe -6 Kg/sq.cm - Prince/Ashirwad or any ISI Brand with labour charges | Each | 65 | Rs. (Rupees:) | Rs. (Rupees:) |
| 133 | Supplying & fixing of 40 mm dia PVC/SWR pipe - 10 Kg/sq.cm - Prince/Ashirwad or any ISI Brand with labour charges | Rtm. | 32 | Rs. (Rupees:) | Rs. (Rupees:) |
| 134 | Supplying & fixing of 50 mm dia PVC/SWR pipe - 10 Kg/sq.cm - Prince/Ashirwad or any ISI Brand with labour charges | Rtm. | 36 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | | | | |
| | | | | | |

| S.No | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|--------------------------------------|--------------------------------------|
| 135 | Supplying & fixing of Stack clamps out of 50 mm by 5 mm flat iron and 16mm dia round iron stays, including bolts and nuts and securing ends of stays to wall or roof.75mm | Nos. | 26 | Rs. (Rupees:) | Rs. (Rupees:) |
| 136 | Supplying & fixing of Stack clamps out of 50 mm by 5 mm flat iron and 16mm dia round iron stays, including bolts and nuts and securing ends of stays to wall or roof-110 mm | Nos. | 22 | Rs. (Rupees:) | Rs. (Rupees:) |
| 137 | 3" (101.6 mm) multi floor trap with grating- UPVC/SWR Pipe fittings | Nos. | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| 138 | 3" (76.2 mm) PVC (SWR) floor trap, plain with grating including jointing with solvent cemen | Nos. | 21 | Rs. (Rupees:) | Rs. (Rupees:) |
| 139 | 3" (76.2 mm) P Trap with Jali - UPVC/SWR Pipe fittings (Prince/Ashirwad or any ISI Brand) | Nos. | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| 140 | Supply, fixing of 110mm dia of Vent Cowl Ashirwad / Prince make | Nos. | 5 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No | Description | Unit | Qty | Rate | Amount |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 141 | Supply, fixing of 75mm dia of Vent Cowl Ashirwad/Prince make | Nos. | 6 | | - |
| | Total | | | | - |
| | PART C :CPVC PIPES AND FITTINGS (INTERNAL WATERSUPPLY): | | | | |
| 142 | Supply and Fixing of Ashirvad/ Ajay/ Astral Flow guard or equivalent CPVC pipes and fittings to meet the requirement of ASTN-D 2846 and are produced in CTS (Copper tube sizes 1/2" to 2" Ashirvad flow guard SDR11 and SDR 13.5 pipes are made from identical CPVC compounds having the same physical properties for Hot and Cold water (IS 15778:2007) | | | | |
| 142.1 | a) 22.20mm OD Pipe-SDR 13.5 | Rm | 145 | Rs. (Rupees:) | Rs. (Rupees:) |
| 142.2 | b) 28.60mm OD Pipe-SDR 13.5 | Rm | 45 | Rs. (Rupees:) | Rs. (Rupees:) |
| 142.3 | c) 34.90mm OD Pipe-SDR 13.5 | Rm | 4 | Rs. (Rupees:) | Rs. (Rupees:) |
| 142.4 | d) 41.30mm OD Pipe-SDR 13.5 | Rm | 20 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No | Description | Unit | Qty | Rate | Amount |
|--------------------------------------|--|------|-----|--------------------------------------|--------------------------------------|
| 143 | S & F CPVC Ball valve - 25 mm NB Size | Each | 8 | Rs. (Rupees:) | Rs. (Rupees:) |
| 117a | S & F CPVC Ball valve - 20 mm NB Size | Each | 15 | Rs. (Rupees:) | Rs. (Rupees:) |
| 144 | Supplying & fixing Gunmetal (GM) Vertical Check (Non return) Valve as per IS-778 I-class heavy duty -25 mm NB Size | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 145 | Providing and fixing "Y" Strainer of 25mm nominal bore with labour charges | Nos. | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 146 | Providing and fixing of 20mm CPVC Bend dia Air Vent with labour charges | Nos. | 5 | Rs. (Rupees:) | Rs. (Rupees:) |
| TOTAL | | | | | - |
| PART - D: RAIN WATER DISPOSAL | | | | | |

| S.No | Description | Unit | Qty | Rate | Amount |
|----------------------------------|---|------|-----|--------------------------------------|--------------------------------------|
| 147 | Supplying ,fixing, testing and commissioning of PVC rain water pipe confirming to IS 13592 of SWR quality 6 kg / sq.cm pressure rated 10mm, including all fittings, like Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste, fixed to wall with properly fabricated MS bracket of suitable size,. | | | | |
| a) | 110mm dia (6kg / sq.cm) | Mtr. | 66 | Rs. (Rupees:) | Rs. (Rupees:) |
| 148 | Supplying , fixing, testing and commissioning of PVC Grating doom 100mm dia of PTMT (Minimum weight 25gms)e with approved sealant complete all as shown in the drawing and as specified. | | | | |
| a) | 100x 100 mm PVC Grating | | 7 | Rs. (Rupees:) | Rs. (Rupees:) |
| Total | | | | | - |
| Grand Total -PART-A+B+C+D | | | | | - |

| Name of Work: ARMY DENTAL COLLEGE -R1 | | | | | |
|---------------------------------------|--|------|-------|--------------------------------------|--------------------------------------|
| ABSTRACT OF ESTIMATE | | | | | |
| EXTERNAL PHE B.O.Q | | | | | |
| SNO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
| | WATER SUPPLY (EXTERNAL) | | | | |
| 149 | Surface excavation n.exc(not exceeding) 30 cmdeep and averaging 15cm deep and getting out | | | | |
| 149.1 | a) Depth up to 0.3 m | Cum | 81.25 | Rs. (Rupees:) | Rs. (Rupees:) |
| 150 | Supply and fixing of CPVC pipes SDR 11 manufactured as per IS15874 with specials such as bends, elbow, tee, reducer, union, adaptor etc., manufactured as per IS15874 including cutting the pipes to required length and joining the pipes by polyfusion joints welding to form homogeneous leak joint as per manufacturers recommendation etc., and complete. Rate shall include necessary flanges of suitable thickness, bolts, washers, and gaskets upto 110 OD pipes | | | | |
| 150.1 | 40mm NB Terrace Line | Rmt | 145 | Rs. (Rupees:) | Rs. (Rupees:) |
| 150.2 | 50mm NB Terrace line & Garden Piping | Rmt | 700 | Rs. (Rupees:) | Rs. (Rupees:) |

| SNO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 150.3 | 40mm NB | Rmt | 175 | Rs. (Rupees:) | Rs. (Rupees:) |
| 151 | Supply and fixing of lever operated butterfly valve or isolation valve of approved make and provided with stainless steel ball (AISI 304) and spindle (AISI 410) glass filled teflon seating and gland packing etc., complete. The valve shall be fixed after the union. The quoted rate shall include the cost of the union, nipple etc., complete. | | | | |
| 151.1 | 50mm dia (Flanged End) | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 151.2 | 40mm dia (Flanged End) | Each | 4 | Rs. (Rupees:) | Rs. (Rupees:) |
| 152 | supply, installation, testing and commissioning of 1 Nos. (working) Centrifugal monoblock type domestic water pumps for pumping domestic water from U.G. sump to over head water tank . The pumps shall be provided with: | | | | |
| 152.1 | Capacity :Discharge -5000 / hr @ 20 m Head(Kirloskar Make) | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |

| SNO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|--------------|---|------|-----|--------------------------------------|--------------------------------------|
| 153 | supply, installation, testing and commissioning of 1 Nos. (working) Pressure booster type water pump for pumping STP Treatede water from STP treated water sump to Gardening points . The pumps shall be provided with: | | | | |
| 153.1 | Capacity :Discharge -18000 / hr @ 10 m Head(Kirloskar Make) | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| Total | | | | | - |

| Name of Work: ARMY DENTAL COLLEGE -R1 | | | | | |
|---------------------------------------|--|------|-----|--------------------------------------|--------------------------------------|
| ABSTRACT OF ESTIMATE | | | | | |
| SEWERAGE (EXTERNAL) | | | | | |
| SNO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
| SEWERAGE (EXTERNAL) | | | | | |
| 154 | Surface excavation n.exc(not exceeding) 30 cm deep and averaging 15cm deep and getting out | | | | |
| 154.1 | Depth up to 1.50 m | Cum | 27 | Rs. (Rupees:) | Rs. (Rupees:) |
| 155 | Supplying, laying/ fixing Testing & commioning of Sail-glazed stoneware drain pipes laid in trenches and jointed as specified | | | | |
| 155.1 | 50mm Dia | Rmt | 150 | Rs. (Rupees:) | Rs. (Rupees:) |
| 156 | Supplying, fixing and testing of Salt-glazed stoneware gully traps, square or round mouthed, tvpe 'P'.of size 180mmX150mm complete as per the drawing,specifications and instructions of the Engineer/Architect. | Each | 11 | Rs. (Rupees:) | Rs. (Rupees:) |

| | | | | | |
|-------|--|------|----|--------------------------------------|--------------------------------------|
| 157 | Providing inspection chamber with 230mm best quality approved table moulded bricks / fly ash in CM 1:4 over a bed of 100mm thick PCC 1:4:8 walls plastered inside smooth in CM 1:3 and outside in CM 1:6, necessary excavation in all sorts of soil, back filling, consolidation and disposing the surplus material within lead of 50m or as directed, benching and channelling in PCC 1:2:4 as per drawing and supply and fixing of precast concrete frame and cover, CI steps etc., complete (Depth of chamber not exceeding 1.5m). | | | | |
| 157.1 | a) 455 x 610X450mm clear opening (precast concrete frame and cover medium duty). | Each | 16 | Rs. (Rupees:) | Rs. (Rupees:) |
| 158 | Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside 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 (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 : 1.68 m deep with SFRC 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 12 mm 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 | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |

| | | | | | |
|--------------|--|------|---|--------------------------------------|--------------------------------------|
| 159 | Cutting into existing manholes for connecting new drains, making good to pipe and rendering, cutting out existing benching for and forming branch channel (1/2 round or 3/4 section) in cement concrete 1:2:4 type B-I smooth finished, and reforming benching as required | | | | |
| 159.1 | 600 x 600mm clear opening, Depth upto 750mm | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| Total | | | | | - |

Name of Work: ARMY DENTAL COLLEGE -R1
 ABSTRACT OF ESTIMATE
 AREA DRAINAGE

| | | Description of Item | Units | Quantity | Rate | Amount |
|-----|----------|---|-------|----------|--------------------------------------|--------------------------------------|
| 160 | 3-03003 | Excavation over area not exceeding 1.5m deep and getting out in Soft/ loose soils Along the road | cum | 37.97 | Rs. (Rupees:) | Rs. (Rupees:) |
| 161 | 4-04025 | M & L for Plain Cement concrete (PCC) 1:4:8 using 40 mm HBG Metal D2 type, in foundations, filling and mass-concrete | cum | 5.63 | Rs. (Rupees:) | Rs. (Rupees:) |
| 162 | 4-04054 | M & L for M25 grade cast-in situ for walls, retaining walls, basement walls, ballast walls using 20mm graded aggregates and any thickness above top of footings: including attached pilasters and buttresses. | cum | 15.19 | Rs. (Rupees:) | Rs. (Rupees:) |
| 163 | 14-14001 | Rendering 10mm thick on fair faces of concrete surfaces in CM 1:4 | sqm | 123.75 | Rs. (Rupees:) | Rs. (Rupees:) |
| 164 | 3-03009 | Returning, filling in, including spreading, levelling, watering and well ramming in layers not exc 25 cm. | cum | 4.22 | Rs. (Rupees:) | Rs. (Rupees:) |

| | | Description of Item | Units | Quantity | Rate | Amount |
|-----|---------------------------------|--|---------------------------|----------|--------------------------------------|--------------------------------------|
| 165 | 3-03033 | Removing excavated material exceeding 500 M but not exceeding 1.5 KM and depositing where directed for soils. | cum | 33.75 | Rs. (Rupees:) | Rs. (Rupees:) |
| 166 | MR | supply, installation, testing and commissioning of 1 Nos. (working) Centrifugal monoblock type domestic water pumps for pumping domestic water from U.G. sump to over head water tank . The pumps shall be provided with: | No | 1.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | | Total Cost in Rs. | | | - |
| B | RAIN WATER RECHARGE PITS | | | | | |
| 167 | | Excavation in trenches, not exceeding 1.2 m wide and not exceeding 2.0m in depth; for foundation, etc.or for shafts, wells, cesspits, manholes, pier holes, etc. not exceeding 10sqm on plan and exceeding 2.0m in depth and getting out Average of Soft / Loose Soils + Hard / Dense Soils. Hard Dense Soils - For Percolation Pits of 1.2 mts dia x 2.0 mts depth. | CUM | 9.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| 168 | | The unit rates for Composite Rain water Harvesting system include of the following Underground water storage tank of respective capacity 01 Piece First flush system 01 Set Gravity Filer 01 PC Delivery pipes 25mm size 15 mtr Down take pipes 100mm size 15 mt | Nos | 2.00 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | | Total Cost in Rs. | | | |
| | | | Grand Total in Rs. | | | - |

| ESTIMATION OF ELECTRIFICATION WORKS-R1 | | | | | |
|---|---|------|-----|--------------------------------------|--------------------------------------|
| ARMY COLLEGE OF DENTAL SCIENCES- PG, BLOCK EXTENSION SECUNDERABAD | | | | | |
| SI No | Description of work | Unit | Qty | Rate | Amount |
| | Point Wiring | | | | |
| 169 | M & L for Point wiring with 1.5 sq.m PVC insulated FRLS stranded copper conductor wires and one run of 1.5 sq.mm PVC insulated FRLS stranded copper conductor wire with different colour as earth continuity conductor connected to continuous earth, in PVC concealed conduits, including G.I. / C.I./ Sheet Metal Box for Modular type switches. | Each | 507 | Rs. (Rupees:) | Rs. (Rupees:) |
| | for one light / fan point / exhaust fan point / bell point controlled by one switch | | | | - |
| 170 | M & L one 3 pin 5 A socket outlet point on the same board with other switches with 2 runs of 1.5 sq.mm PVC FRLS sheathed copper conductor cable in (Phase, Neutral) PVC conduit and 1no. 1.5 sqmm FRLS earth wire complete | Each | 42 | Rs. (Rupees:) | Rs. (Rupees:) |
| 171 | M & L for Point wiring with 2.5 sq.mm PVC insulated FRLS stranded copper conductor wires and one run of 1.5 sq.mm PVC insulated FRLS stranded copper conductor wire with different colour as earth continuity conductor connected to continuous earth, in PVC concealed conduits, including G.I./ C.I./ Sheet Metal Box for Modular type switches. | Each | 238 | Rs. (Rupees:) | Rs. (Rupees:) |
| 172 | M & L for Point wiring with 1.5 sq.mm PVC insulated FRLS stranded copper conductor wire and one run of 1.5 sq.mm PVC insulated FRLS stranded copper conductor wire with different colour as earth continuity conductor connected to continuous earth, in PVC concealed conduits, including G.I. / C.I./ Sheet Metal Box for Modular type switches. | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 172 | for one light point controlled by 2 nos. 2 way switches. | | | | - |
| 173 | M & L for Point wiring for one 3 pin socket outler 5 A-15A / one 3 pin AC socket outler 20A, independent, with 2 X 4 sq.mm PVC insulated FRLS stranded copper conductor wires and 1 X 2.5 sq.mm PVC insulated FRLS stranded copper conductor wire with different colour as earth continuity conductor connected to continuous earth, in PVC concealed conduits, including G.I./ C.I. / Sheet Metal Box and for Modular type switches. | Each | 138 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| 174 | Supply and fixing of rigid PVC conduits (concealed) exclusive of boxes (junction / terminal) but inclusive of all tees, bends, elbows, reducers, bell mouth tube ends and fixing accessories such as couplers, lock, nut, saddle, pipe hooks etc | | | | - |
| 174.1 | 25mm dia (for TV, Telephone and LAN) | RM | 500 | Rs. (Rupees:) | Rs. (Rupees:) |
| 174.2 | 40mm dia(from Dish antenna) | RM | 65 | Rs. (Rupees:) | Rs. (Rupees:) |
| 175 | M & L for sub main wiring with 4 runs of 6 sq.mm PVC insulated FRLS stranded copper conductor wires and 2 runs of 4 sq.mmm PVC insulated FRLS stranded copper conductor wires as earth wires and drawing into conduit (conduit and conduit accessories measured separately) for LDBs and UPSDBs | RM | 500 | Rs. (Rupees:) | Rs. (Rupees:) |
| 176 | M & L for sub main wiring with 4 runs of 10 sq.mm PVC insulated FRLS stranded copper conductor wires and 2 runs of 6 sq.mmm PVC insulated FRLS stranded copper conductor wires as earth wires and drawing into conduit (conduit and conduit accessories measured separately) for PDBs | RM | 500 | Rs. (Rupees:) | Rs. (Rupees:) |
| 177 | Supplying and fixing following rating, four pole, 415 V, MCCB in the factory made FP MCCB sheet steel enclosure complete with connections, testing and commissioning etc. as required. (UPS INPUT) | | | | - |
| 177.1 | 63 A,FP, 25 KA, MCCB | Nos | 1 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 178 | Supply and fixing of factory made distribution board made of 1.6mm CRCA sheet steel prewired with copper stranded FRLS PVC insulated wire, double door type phosphated epoxy / powder coated having protective peelable polylayer on outer cover sheet the terminal arrangement for incoming cables 10 sq.mm and outgoing cables minimum 6 sq.mm for each cable entry with detachable cassette for removable of MCB connection from DB with out loosening internal connections, DB with all fitments shall be as per IS: 8623 for 4 way TPN DB with 200 A rated bus bar, 415V (suitable for one FP MCB incoming for mains , one DP MCB for fridge circuit and 18 Nos SP MCB outgoing circuits) - for UPSDBs. | Each | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| 179 | Incoming : 40 A 4P MCB 10kA | Each | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| | Outgoing : | | | | - |
| 180 | 16 A SP MCBs 10kA- 9 Nos | Each | 108 | Rs. (Rupees:) | Rs. (Rupees:) |
| 181 | 6 A SP MCB 10kA- 9 Nos | Each | 108 | Rs. (Rupees:) | Rs. (Rupees:) |
| 182 | Blanking sheets - 4 Nos | Each | 36 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 183 | Supply and fixing of factory made distribution board made of 1.6mm CRCA sheet steel prewired with copper stranded FRLS PVC insulated wire, double door type phosphated epoxy / powder coated having protective peelable polylayer on outer cover sheet the terminal arrangement for incoming cables 10 sq.mm and outgoing cables minimum 6 sq.mm for each cable entry with detachable cassette for removable of MCB connection from DB with out loosening internal connections, DB with all fitments shall be as per IS: 8623 for 4 way TPN DB with 200 A rated bus bar, 415V (suitable for one FP MCB incoming for mains , one DP MCB for fridge circuit and 18 Nos SP MCB outgoing circuits) - for LDBs. | Each | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| 184 | Incoming : 40 A 4P MCB 10kA | Each | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| | Outgoing : | | | | - |
| 185 | 16 A SP MCBs 10kA- 9 Nos | Each | 108 | Rs. (Rupees:) | Rs. (Rupees:) |
| 186 | 6 A SP MCB 10kA- 9 Nos | Each | 108 | Rs. (Rupees:) | Rs. (Rupees:) |
| 187 | Blanking sheets - 4 Nos | Each | 36 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 188 | Supply and fixing of factory made distribution board made of 1.6mm CRCA sheet steel prewired with copper stranded FRLS PVC insulated wire, double door type phosphated epoxy / powder coated having protective peelable polylayer on outer cover sheet the terminal arrangement for incoming cables 10 sq.mm and outgoing cables minimum 6 sq.mm for each cable entry with detachable cassette for removable of MCB connection from DB with out loosening internal connections, DB with all fitments shall be as per IS: 8623 for 8 way TPN DB with 200 A rated bus bar, 415V (suitable for one FP MCB incoming for mains , one DP MCB for fridge circuit and 18 Nos SP MCB outgoing circuits) - for PDBs. | Each | 10 | Rs. (Rupees:) | Rs. (Rupees:) |
| 189 | Incoming : 63 A 4P MCB 10kA | Each | 10 | Rs. (Rupees:) | Rs. (Rupees:) |
| | Outgoing : | | | | - |
| 190 | 16 A SP MCBs 10kA- 9 Nos | Each | 90 | Rs. (Rupees:) | Rs. (Rupees:) |
| 191 | 20 A SP MCB 10kA- 4 Nos | Each | 40 | Rs. (Rupees:) | Rs. (Rupees:) |
| 192 | 6 A SP MCB 10kA- 11 Nos | Each | 110 | Rs. (Rupees:) | Rs. (Rupees:) |
| 193 | Blanking sheets - 4 Nos | Each | 40 | Rs. (Rupees:) | Rs. (Rupees:) |
| | Light/Fan Fixtures | | | | - |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| | Supply and fixing of the following LED Light Fixtures with electronic driver , heat dissipating element including necessary accessories etc., complete on wall/ Ceiling / suspended from ceiling/ recess including all fixing accessories such as leads,Teak wood round block, downrods, MS clamps, nuts, GI chain and bolts etc complete as required. Makes : Philips / Wipro / Bajaj / Crompton | | | | - |
| 194 | a) 15W Surface / Recessed mounted Downlighter similar to Bajaj make Cat no. BAJAJ G200401 BZSLOS nxt 15L LED WH SD or equivalent in Wipro / Philips / Crompton | Each | 32 | Rs. (Rupees:) | Rs. (Rupees:) |
| 195 | b) 15W Surface / Recessed mounted Downlighter similar to Bajaj make Cat no. BZSLOS nxt 15L LED WH SD or equivalent in Wipro / Philips / Crompton | Each | 122 | Rs. (Rupees:) | Rs. (Rupees:) |
| 196 | c) 40 W LED tube light including all sundry materials and accessories required for fixing similar to Bajaj make Cat no. BRCS 40W LED 4F D WH or equivalent in Wipro / Philips / Crompton | Each | 13 | Rs. (Rupees:) | Rs. (Rupees:) |
| 197 | d) 40 W LED tube light including all sundry materials and accessories required for fixing similar to Bajaj make Cat no. BCLAB 40W WH LED P or equivalent in Wipro / Philips / Crompton | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 198 | e) 36W Recess mounted 2*2 Fitting similar to Bajaj make Cat no. BZRSQL 36L LED GX or equivalent in Wipro / Philips / Crompton | Each | 149 | Rs. (Rupees:) | Rs. (Rupees:) |
| 199 | f) 36W Recess mounted 2*2 Fitting similar to Bajaj make Cat no. BZSSQL 36L LED WH GX or equivalent in Wipro / Philips / Crompton | Each | 38 | Rs. (Rupees:) | Rs. (Rupees:) |
| 200 | g) 10 W bulkhead including all sundry materials and accessories required for fixing similar to Bajaj make Cat no. BIBWP 10W LED or equivalent in Wipro / Philips / Crompton | Each | 5 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|---|------|-----|-----------------------------|-----------------------------|
| 201 | Supply and installation of ceiling rose, surface bakelite 65mm X 50mm two to three terminals. | Each | 515 | Rs. (Rupees:) | Rs. (Rupees:) |
| 202 | Supply and fixing of single pole and neutral sheet metal enclosure with a two pin and earth plug and socket complete with one single pole MCB - 240V, 20 A AC | Each | 7 | Rs. (Rupees:) | Rs. (Rupees:) |
| 203 | S & F switch Modular type, single pole, one way, 5 amp | Each | 219 | Rs. (Rupees:) | Rs. (Rupees:) |
| 204 | S & F switch Modular type, 5 amp, single pole, two way | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 205 | S & F socket outlet 3 pin, 5amp modular type | Each | 261 | Rs. (Rupees:) | Rs. (Rupees:) |
| 206 | S & F switch Modular type, single pole, one way 15 amp | Each | 262 | Rs. (Rupees:) | Rs. (Rupees:) |
| 207 | S & F socket outlet 3 pin, 15amp modular type | Each | 262 | Rs. (Rupees:) | Rs. (Rupees:) |
| 208 | Supply and Fixing of Modular type electronic Fan regulator and connecting | Each | 129 | Rs. (Rupees:) | Rs. (Rupees:) |
| | S & F modular white cover plate with fram | | | | - |
| 209 | 2 Module | Each | 64 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|-------------------------------|------|-----|--------------------------------------|--------------------------------------|
| 210 | 3 Module | Each | 320 | Rs. (Rupees:) | Rs. (Rupees:) |
| 211 | 4 Module | Each | 220 | Rs. (Rupees:) | Rs. (Rupees:) |
| 212 | 6 Module | Each | 180 | Rs. (Rupees:) | Rs. (Rupees:) |
| 213 | 8 Module | Each | 200 | Rs. (Rupees:) | Rs. (Rupees:) |
| 214 | 12 Module | Each | 34 | Rs. (Rupees:) | Rs. (Rupees:) |
| | S & F Modular metal flush box | | | | - |
| 215 | 2 Module | Each | 64 | Rs. (Rupees:) | Rs. (Rupees:) |
| 216 | 3 Module | Each | 320 | Rs. (Rupees:) | Rs. (Rupees:) |
| 217 | 4 Module | Each | 220 | Rs. (Rupees:) | Rs. (Rupees:) |
| 218 | 6 Module | Each | 180 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|------|-----|-----------------------------|-----------------------------|
| 219 | 8 Module | Each | 200 | Rs. (Rupees:) | Rs. (Rupees:) |
| 220 | 12 Module | Each | 34 | Rs. (Rupees:) | Rs. (Rupees:) |
| 221 | Supply and fixing of anti bacterial Telephone outlet (RJ11) with anodised GI box with anti bacterial front plate and plug in type telephone socket . Makes : Legrand / Schneider / Siemens / | Nos | 18 | Rs. (Rupees:) | Rs. (Rupees:) |
| 222 | Supply and installation of the following Krone connectors in junction box complete as required. | | | | - |
| | a)20 pair | Nos | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 223 | Supply and laying of 2pair 0.5mm dia PVC insulated Copper conductor Telephone wire conforming to DOT Specification Makes : Polycab / Finolex / Havells. | Rmt | 30 | Rs. (Rupees:) | Rs. (Rupees:) |
| 224 | Supply and fixing of anti bacterial LAN outlet (RJ45) with anodised GI box with anti bacterial front plate and plug in type telephone socket . Makes : Legrand / Schneider / Siemens | Nos | 17 | Rs. (Rupees:) | Rs. (Rupees:) |
| 225 | Supply of 6 UTP LAN Cable in existing conduit cat - Makes : Legrand / Comscope | Rmt | 510 | Rs. (Rupees:) | Rs. (Rupees:) |
| 226 | Supply and fixing of Modular anti bacterial co-Axial universal socket type TV Antenna outlet on Module box with anti bacterial cover frame with connections including cost and conveyance of all materials and all labour charges etc., complete Makes : Legrand / Schneider / Siemens / | Nos | 8 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|---|---|------|-----|--------------------------------------|--------------------------------------|
| 227 | Supply and Run of 1 of RG 6 Co-axial cable of in existing pipe including all labour charges etc., complete. Makes : Polycab / Finolex / Havells. | Rmt | 240 | Rs. (Rupees:) | Rs. (Rupees:) |
| | Supply and installation of Rigid PVC junction box with cover | | | | - |
| 228 | for 25mm conduit (1 to 4 way) | Each | 4 | Rs. (Rupees:) | Rs. (Rupees:) |
| 229 | for 32mm conduit (1 to 4 way) | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 230 | for 40mm conduit (1 to 4 way) | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 231 | Supply and installation of 1400mm 5 star rated ceiling fan including hanging and connecting up including flexible copper wire for connections rom ceiling rose or connector to fan and including down rod, capacitors, canopy, and electronic type fan regulator, piano type. | Each | 125 | Rs. (Rupees:) | Rs. (Rupees:) |
| 232 | Supply and installation of 1200mm 5 star rated ceiling fan including hanging and connecting up including flexible copper wire for connections rom ceiling rose or connector to fan and including down rod, capacitors, canopy, and electronic type fan regulator, piano type. | Each | 4 | Rs. (Rupees:) | Rs. (Rupees:) |
| 233 | Supply and fix exhaust fan AC single phase 230/240V of size 300mm sweep with louver. | Each | 13 | Rs. (Rupees:) | Rs. (Rupees:) |
| 234 | Supply and installation of storage type 15 ltrs vertical geyser including temperature control system and complete with all fittings and accessories, outer body of geyser shouel be plastic, inner with stainless steel, 230 V AC. The geyser shall meet minimum efficiency levels as mentioned in IS 2082. | Each | 8 | Rs. (Rupees:) | Rs. (Rupees:) |
| SUB TOTAL-INTERNAL ELECTRIFICATION-A | | | | | - |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| | EXTERNAL ELECTRIFICATION | | | | |
| 235 | Supply and fixing of 4 Pole MCCB with Microprocessor based release 630 Amp, 50Hz, 415 V with rupturing capacity 35 KA on existing LT panel. | No | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| | Main LT Panel | | | | - |
| 236 | Supply, Installation, Testing and Commissioning of 3 phase and Neutral 415V 4 wire Free Standing Floor mounted outdoor type weatherproof double door MVpanel with canopy made out of 3mm thick MS sheet after seven tank process and painting with Epoxy powder coating with the following switchgear and metering equipments as per single line diagram and technical specifications . The panel shall consist of suitable rating FP Aluminium busbar (at the rating of 0.8A/Sq.mm) supported with DMC/ SMC insulators and color coded with Heat shrinkable sleeves. The Metering shall be provided as specified. The panel shall have Short circuit withstanding capacity of minimum 35KA and consist of the switchgear as mentioned below. The panel shall be got fabricated from manufacturers with CPRI Test certificate only. The PCC shall have atleast two spare cubicles of the maximum rating. The size of all Panel Mounting Meters shall be 96X96mm. The Panels shall be mounted on U channels/ brick pedestal including supply and fixing of the same. | No | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| | INCOMER | | | | - |
| | MCCB, with microprocessor based releases with O/C,S/C,E/F 630Amps, 36kA, FP, - 1 SET | | | | - |
| | Incomer shall have one set of the following items: | | | | - |
| | 0 - 500V Digital Volt meter - 1No. | | | | - |
| | 0 - 630A Digital Ammeter- 1 No. | | | | - |
| | Intelligent multi function digital meter of suitable range to read V,A,KVA, KVAH, KWAH, KW, KVAR, PF, Hz etc with communication facility (RS485 port) and LED display with required Nos CTs, 15 VA, class 0.5 class and control circuit wiring with MCBs.- 1 No. | | | | - |
| | 1 Set of Indication Lamps, LED type, R,Y,B and breaker 'ON' , 'OFF', 'TRIP' & spring charged lamps. | | | | - |
| | BUS BAR | | | | - |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| | FP Alluminium busbar of 650A with 35 KA fault level capacity, mounted on non-hygroscopic, glass fibre reinforced insulators-1Set | | | | - |
| | OUTGOINGS | | | | - |
| | 400A, 36KA FP MCCB - 1No | | | | - |
| | 63A, 10KA FP MCB - 11Nos | | | | - |
| | 40A, 10KA FP MCB - 10Nos | | | | - |
| | 32A, 10KA FP MCB - 4Nos(including 1 spare) | | | | - |
| | 1 Lot of control wiring.1 Set of designation plates. | | | | - |
| | Two numbers 32mm X 6mm GI earthing terminals - one on each side of the panel with earth strip run inside the panel | | | | - |
| | HVAC Panel | | | | - |
| 237 | Supply, Installation, Testing and Commissioning of 3 phase and Neutral 415V 4 wire Free Standing Floor mounted outdoor type weatherproof double door MVpanel with canopy made out of 3mm thick MS sheet after seven tank process and painting with Epoxy powder coating with the following switchgear and metering equipments as per single line diagram and technical specifications . The panel shall consist of suitable rating FP Aluminium busbar (at the rating of 0.8A/Sq.mm) supported with DMC/SMC insulators and color coded with Heat shrinkable sleeves.The Metering shall be provided as specified. The panel shall have Short circuit withstanding capacity of minimum 35KA and consist of the switchgear as mentioned below. The panel shall be got fabricated from manufacturers with CPRI Test certificate only. The PCC shall have atleast two spare cubicles of the maximum rating. The size of all Panel Mounting Meters shall be 96X96mm. The Panels shall be mounted on U channels/ brick pedestal including supply and fixing of the same. | No | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| | INCOMER | | | | - |
| | MCCB, with microprocessor based releases with O/C,S/C,E/F 400Amps, 36kA, FP,. - 1 SET | | | | - |
| | Incomer shall have one set of the following items: | | | | - |
| | 0 - 500V Digital Volt meter - 1No. | | | | - |
| | 0 - 400A Digital Ammeter- 1 No. | | | | - |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|---|------|-----|-----------------------------|-----------------------------|
| | Intelligent multi function digital meter of suitable range to read V,A,KVA, KVAH, KWAH, KW, KVAR, PF, Hz etc with communication facility (RS485 port) and LED display with required Nos CTs, 15 VA, class 0.5 class and control circuit wiring with MCBs..- 1 No. | | | | - |
| | 1 Set of Indication Lamps, LED type, R,Y,B and breaker 'ON' , 'OFF', 'TRIP' & spring charged lamps. | | | | - |
| | BUS BAR | | | | - |
| | FP Alluminium busbar of 400A with 36 KA fault level capacity, mounted on non-hygroscopic, glass fibre reinforced insulators-1Set | | | | - |
| | OUTGOINGS | | | | - |
| | 100A, 25KA FP MCCB - 2Nos | | | | - |
| | 63A, 25KA FP MCCB - 2Nos | | | | - |
| | 63A, 10KA FP MCB - 4Nos(including 1 spare) | | | | - |
| | 32A, 10KA FP MCB - 4Nos(including 1 spare) | | | | - |
| | 1 Lot of control wiring.1 Set of designation plates. | | | | - |
| | Two numbers 32mm X 6mm GI earthing terminals - one on each side of the panel with earth strip run inside the panel | | | | - |
| 238 | Earthing complete with galvanised steel earth plate electrode 60 X 60 CM X 6.3 mm thick buried directly in ground (earth pit not less than 2.25m deep below ground level) with top edge of the plate not less than 1.5m below normal ground level, connected to GI earth lead wire 4.0 mm dia by means of bolts, nuts, check nuts and washers of galvanised iron or steel all as shown in electrical plate No 5 connected to earthing test point al as specified or indicated including testing on completion (M & L) | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 239 | Extra for excavtion and earth work and providing PCC chamber with GI cover, funnel with watering pipe 20mm dia, wire mesh & Protection pipe for protection of earthing conductor, test link etc. including testing on completion. | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 240 | Earth continuity on main earthing lead fixed to wall on bottom or recess or cables or buired in ground or drawn in conduit pipe or fixed to poles or any other indicated situation for loop earthing etc as required 4mm dia galvanised iron or steel wire | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| | ARMOURED XLPE CABLES (LT) 1.1 KV GRADE: | | | | - |
| | Supply and lay cable XLPE Insulated screened PVC bedded, galvanized steel strip or wire armored, electric power cables (heavy duty) 1100 Volts grade with stranded aluminium conductor | | | | - |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|-------|-----|--------------------------------------|--------------------------------------|
| 241 | do-- but size 240 sq mm 3½ core | Meter | 700 | Rs. (Rupees:) | Rs. (Rupees:) |
| | CABLE GLAND | | | | - |
| | Supply and fix double compression copper stain less steel gland for fixing armoured cable in panel | | | | - |
| 242 | do but for cable of size 3½core 240 sq mm to 300 sq mm above | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 243 | Supply of ARCHITECTURAL FOUR ARM(MAIA DESIGN) POLE :JM.08.20.015 12M height Four arm Pole Made in combination of mild steel pipe sections 194mm dia.,114mm dia. & 2M height four arm Maia design bracket made in combination of mild steel pipe sections 60mm dia., gradually bent 42mm dia. & four cast iron elements (No.1- dim.- 392mmx303mm-weight-3.2kgs.,No.-2-dim.- 109mmx48mm-weight-1.4kgs. ,No.-3-dim.- 103mmx120mm-weight-2.1kgs. & No.-4-dim.- 121mmx59mm-weight-1.0kgs.) to get 930mm horizontal arm length & pleasing aesthetics. Architectural Base design with the company/brand logo engraved in the cast iron mould, starting with circular plinth of 900mm dia. & 340mm height, followed by multiple gradually reducing and increasing sections with different decorative designs embossed along the overall height of 2500mm, as approved by the concerned Engineer. the total weight of the decorative cast iron base is 595kgs.Decorative Ring-1(194mm/114mm-13kgs.) & Ring-2(114mm/89mm-4.0kgs.) are made of cast iron. Decorative cast iron pole top consists of a ring section with steps(178mm. dia.x110mm(H), a sphere section with leaf design(180mm dia.) & Conical section(bottom dia. 75mm & top dia.32mm,400mm(H)-total height of the pole top is 670mm & weight is 16.1Kgs.All cast iron parts weight mentioned are with +/- 5% tolerance. Cast iron-Material-Grey Iron & Grade-FG 200.Entire pole & Bracket shall be made to provide pleasing aesthetics as approved by Concerned Engineer in-charge. After Fabrication, Entire Pole is hot dip galvanized(60 | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 244 | Earth work excavation with a approximate quantity of 4.0 Cum for erection of 12 Mtrs Architectural four arm pole and refilling with a quantity of 0.53 Cum of PCC 1:4:8, 1.50 Cum M 20 grade concrete and (80 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carraige etc complete. | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 245 | Fabrication, transportation and supply of 12 Mtrs Polygon High Mast with single section of 3mm thick of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 520mm dia 16mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M 24 x 800 mm foundation bolts of required quantity, suitable for fixing of 6 Nos 170W LED luminaires with GLS type aviation twin lamp. Makes: Bajaj/Valmont/Transrail. | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 246 | Foundation and erection charges with special T&P, for"Foundation and erection charges with special T&P, for 12 Mtrs long polygon high mast pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.67Mtrx0.67Mtrsx1.50 Mtr size M20 cc work vibrated concreting mixing with necessary steel (20kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete with coil earthing | Each | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 247 | Supply and fixing LED flood light 170 watt 230 V AC outdoor type with thermal management in multiple optics and equipped with IP66 protection, with impact and corrosion resistant complete with driver and lamp. | Each | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 248 | Supply and fixing of 6-32A 10KA SP MCB, C/D Curve ISI Mark of make Legrand - DX3 / Schneider- Acti9 in the exiting junction box. | Each | 2 | Rs. (Rupees:) | Rs. (Rupees:) |

| SI No | Description of work | Unit | Qty | Rate | Amount |
|-------|--|------|-----|--------------------------------------|--------------------------------------|
| 249 | Supply and laying of 40mm Nominal Bore Medium grade G.I.Pipe etc., complete. | Rmt | 70 | Rs. (Rupees:) | Rs. (Rupees:) |
| 250 | Supply and lay cable XLPE Insulated screened PVC bedded, galvanized steel strip or wire armored, electric power cables (heavy duty) 1100 Volts grade with stranded aluminium conductor | | | | |
| 250.1 | do-- but size 16 sq mm 4 core | Rmt | 140 | Rs. (Rupees:) | Rs. (Rupees:) |
| 251 | Supply and fix double compression copper stain less steel gland for fixing armoured cable in panel | | | | |
| 251.1 | do-- but size 16 sq mm 4 core | Each | 4 | Rs. (Rupees:) | Rs. (Rupees:) |
| | | | | | |
| | SUB TOTAL-EXTERNAL ELECTRIFICATION-B | | | | - |
| | GRAND TOTAL-A+B | | | | - |

Name of Project : ARMY COLLEGE OF DENTAL SCIENCES- PG BLOCK EXTENSION AT SECUNDERABAD-R1
 FIRE FIGHTING B.O.Q

| Sl. No. | Item Description | Units | Qty | Rate In Rs. | Amount in Rs. |
|---------|--|-------|-----|-----------------------------|-----------------------------|
| 252 | Supply and Install, Testing and Commissioning of Booster pumps for 440V, 3 phase, 50Hz Confirming to IS-12469 : 1988 with CI casing bronze impeller and stainless steel shaft mounted on heavy duty bearings suitable for 440 volts, 3 phase, 50Hz 36m head, 900 LPM discharge | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 253 | Supply and fix branch pipe gun metal 63mm instantaneous inlet, made threaded outlet, 15mm bore nozzle short | Nos. | 3 | Rs. (Rupees:) | Rs. (Rupees:) |
| 254 | Supply and fix hose reel of 20 mm dia and 30 meter length conforming to IS 5132 | Nos. | 3 | Rs. (Rupees:) | Rs. (Rupees:) |
| 255 | Supply and fix Gun metal fire brigade inlet connection consisting of Two nos 63mm dia instantaneous type male coupling with built in check valves and 150mm dia sluice valve (one no 100mm dia NRV), and 100mm dia flanged outlet complete with all accessories. | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 256 | Supply and fix MS flanged pipe heavy duty for multi storied building duly painted with 2 coats of synthetic enamel paint over coat of zinc chromate primer | | | | |
| 256.1 | 100mm NB | Rmt | 48 | Rs. (Rupees:) | Rs. (Rupees:) |
| 256.2 | 80mm NB | Rmt | 10 | Rs. (Rupees:) | Rs. (Rupees:) |

| Sl. No. | Item Description | Units | Qty | Rate In Rs. | Amount in Rs. |
|---------|---|-------|-----|--------------------------------------|--------------------------------------|
| 257 | Supplying, Installing, testing and commissioning CI butterfly valves (PN 16) slim seal standard lever operated type conforming to IS Standard with required flanges, nuts, bolts etc. Complete all as specified and directed at site by the PM. | | | | |
| 257.1 | 100mm dia | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 258 | Supplying, installing and commissioning C.I.flanged "Y" type Strainer with SS mesh,suitable flanges, nuts, bolts, gaskets etc. Complete all as specified and directed at site by the PM. | | | | |
| 258.1 | 100mm dia | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 259 | Supply,installation,testing and Commissioning of 16 zone console panel | Nos. | - | -blank- | |
| 260 | Supplying, installing, testing and commissioning of C.I. Non-return valves as per IS:5312, swing check type with required flanges, nuts, bolts and gaskets etc. complete. | | | | |
| 260.1 | 100mm dia | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |

| Sl. No. | Item Description | Units | Qty | Rate In Rs. | Amount in Rs. |
|---------|--|-------|-----|-----------------------------|-----------------------------|
| 261 | Supply, installation, testing and commissioning of 25 mm dia Ball Valve including labour charges etc complete for finished item of the work as directed by PM | Nos. | 3 | Rs. (Rupees:) | Rs. (Rupees:) |
| 262 | Supply,laying,testing and commissioning of 2C x 1.5 sq.mm cable of 1.1KV Grade XLPE ,insulated,sheathed steel armoured with Copper Conductor Power Cables.The rates quoted for laying shall include laying of cables on surface with saddles,screws etc. including material and labour charges etc complete as per site requirement. | Rmt | 410 | Rs. (Rupees:) | Rs. (Rupees:) |
| 263 | Supplying, erection, testing & commissioning of air release valve fitted on the top most point of the down comer with drain connection. The rate shall be inclusive of accessories. | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 264 | Supplying,installing,testing and commissioning Main control panel of With sufficient zones capacity of 1 to 16 zone capacity. The panel shall be with zone sounder,fault relay,fire relay,zone isolation facility and suitable to connect to PC. The panel shall be fabricated by 16 swg. CRCA sheet and power coated,door shall be glass fronted type with locking arrangement as detailed in the specification. quoted rate shall include with batteries and battery box etc,complete. | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 265 | Supplying,installing,testing and commissioning Electronic hooter with suitable CRCA having and wiring circuit. Sound Level - 85 dB.As shown in pictures | | 3 | Rs. (Rupees:) | Rs. (Rupees:) |

| Sl. No. | Item Description | Units | Qty | Rate In Rs. | Amount in Rs. |
|---------|--|-------|-----|--------------------------------------|--------------------------------------|
| 266 | Supplying,installing,testing and commissioning of Manual call points made out of CRCA sheet as per specifications and pictures | Nos. | 3 | Rs. (Rupees:) | Rs. (Rupees:) |
| 267 | Supply,fixing and installation of fire exit signage's self illuminating light fixtures displaying exit with an arrow towards the exit door. | Nos. | 9 | Rs. (Rupees:) | Rs. (Rupees:) |
| 268 | Supply & Installation of CO2 type Fire Extinguisher of 4.5kgs capacity with stand as shown in picture,made from brand new seamless drawn steel cylinder as per IS: 7285 with ISI mark and Chief of controller of explosives approval,fitted with wheel valve as per IS: 3224 with ISI mark,with discharge hose and horn and supplied complete with initial charge as per IS: 15683 with ISI mark. | Nos. | 19 | Rs. (Rupees:) | Rs. (Rupees:) |
| 269 | Supply & Installation of CO2 type Fire Extinguisher of 22.5 kgs capacity with trolley as shown in picture,made from brand new seamless drawn steel cylinder as per IS: 7285 with ISI mark and Chief of controller of explosives approval,fitted with wheel valve as per IS: 3224 with ISI mark,with discharge hose and horn and supplied complete with initial charge as per IS: 15683 with ISI mark. | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 270 | Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 9 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A, B, C & Electrical fires) with 5 years warranty Including transportation, all taxes and all labour charges etc complete. | Nos. | 15 | Rs. (Rupees:) | Rs. (Rupees:) |

| Sl. No. | Item Description | Units | Qty | Rate In Rs. | Amount in Rs. |
|---------------------|--|-------|-----|-----------------------------|-----------------------------|
| 271 | Supply & Installation of Water Stored pressure type Fire Extinguisher of 9lit capacity,fitted with discharge control valve (Squeeze grip type) CEmarked and pressure gauge, with discharge hose and open nozzle and supplied complete with initial charge as per IS:15683 with ISI mark and wall bracket. Fire Rating 2A | Nos. | 3 | Rs. (Rupees:) | Rs. (Rupees:) |
| 272 | Supply & fixing of 4 Nos of 9 lts capacity round bottom sand buckets along with bucket sand, fire buckets with round bottom type , enamel painted white inside and red outside & letter fire in black outside & handle with mounting bracket along with suitable MS stand to install the buckets as per the local fire standards | Nos. | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| TOTAL AMOUNT | | | | | - |

Name Of Project : ARMY COLLEGE OF DENTAL SCIENCES- PG BLOCK EXTENSION AT SECUNDERABAD-R1

Name Of Work: Estimate For HVAC (VRV/F) Works

| S.No. | Description of Item | Unit | Qty | Rate | Amount in (Rs) |
|------------------------|---|------|-----|--------------------------------------|--------------------------------------|
| HIGH SIDE WORKS | | | | | |
| 273 | Supplying, installing, testing and commissioning of VRV/VRF outdoor units of the following capacities. The scope includes making of suitable RCC pedestals, Channels, required installation accessories such as necessary bolts, screws & nuts, connecting kits etc, complete and necessary Interconnections of Power cables minimum 10 Rmt from Outdoor units panel, and earthing/ Refrigerant connections. The capacity of the Units shall be the nearest rating based on manufacturer. | | | | |
| | The Outdoor condensing unit comprising of Inverter compressor's, Heat Exchanger, propeller / axial fans, refrigerant Circuit, Safety Devices & Oil Recovery System and in built starter. The starter unit shall be operated both from local and remote. | | | | |
| | Refrigerant Circuit shall include an accumulator, liquid and gas shut off valves, ball valves, distribution / refrigerant joints, control valves, and solenoid valves. Unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping. Refrigerant should be R410A and COP should be 3.5 minimum. The outdoor unit shall be mounted on VI pads to avoid vibrations. | | | | |
| A | Ground Floor | | | | |
| 273.1 | 24 HP | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No. | Description of Item | Unit | Qty | Rate | Amount in (Rs) |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| 273.2 | 18 HP | Nos. | 8 | Rs. (Rupees:) | Rs. (Rupees:) |
| 273.3 | 14 HP | Nos. | 2 | Rs. (Rupees:) | Rs. (Rupees:) |
| 274 | Supply of VRV/VRF - 4 Way Casette Indoor Units of the following actual capacities. The scope includes required Cordless Remotes supports with necessary Panels,bolts, screws&nuts etc, and necessary interconnections with Power supply/ earthing/ Refrigerant Connections Complete as required and as per drawing. The capacity of the Units shall be the nearest rating based on manufacturer | | | | |
| A | Ground Floor | | | | |
| 274.1 | 1.0 TR | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 274.2 | 2.0 TR | Nos. | 7 | Rs. (Rupees:) | Rs. (Rupees:) |
| 274.3 | 2.5 TR | Nos. | 6 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No. | Description of Item | Unit | Qty | Rate | Amount in (Rs) |
|-------|--|------|-----|-----------------------------|-----------------------------|
| 274.4 | 3.0 TR | Nos. | 15 | Rs. (Rupees:) | Rs. (Rupees:) |
| 274.5 | 3.5 TR | Nos. | 6 | Rs. (Rupees:) | Rs. (Rupees:) |
| 274.6 | 4.0 TR | Nos. | 10 | Rs. (Rupees:) | Rs. (Rupees:) |
| 275 | Supply, installation, testing & commissioning of Stand alone System controller with Display for controlling the indoor & outdoor units from a Remote place for all the circuits. | Nos. | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 276 | Supply, installation, testing & commissioning of Required size/ quantity of Ref.net Joints & Multi kits for Indoor units. | Nos. | 19 | Rs. (Rupees:) | Rs. (Rupees:) |
| 277 | Supply, installation, testing & commissioning of Required size/ quantity of Ref.net Joints & Multi kits for out door units as per the capacities. | Nos. | 12 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No. | Description of Item | Unit | Qty | Rate | Amount in (Rs) |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| 278 | Supply, installation, testing & commissioning of 16 SWG copper Refrigerant Piping of various sizes as given below. The rate shall include Copper pipe and insulation with 19 mm Thick Nitrile rubber tube (i.e. As per Unit Manufacturer recommendation) and necessary Installation accessories such as supports and clamps. The sizes given shall be verified by Supplier for adequacy and size based on manufacturer standards. | | | | |
| 278.1 | 9.52 mm dia. | Rmt | 130 | Rs. (Rupees:) | Rs. (Rupees:) |
| 278.2 | 12.7 mm dia. | Rmt | 86 | Rs. (Rupees:) | Rs. (Rupees:) |
| 278.3 | 15.8 mm dia. | Rmt | 156 | Rs. (Rupees:) | Rs. (Rupees:) |
| 278.4 | 19.1 mm dia. | Rmt | 85 | Rs. (Rupees:) | Rs. (Rupees:) |
| 278.5 | 28.58 mm dia. | Rmt | 86 | Rs. (Rupees:) | Rs. (Rupees:) |
| 278.6 | 34.9 mm dia. | Rmt | 113 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No. | Description of Item | Unit | Qty | Rate | Amount in (Rs) |
|-------|---|------|-----|--------------------------------------|--------------------------------------|
| 279 | Supply, installation, testing & commissioning of UPVC heavy duty drain pipe of various sizes as given below. The rate shall include Copper pipe and insulation with 6 mm Thick Nitrile rubber tube and necessary Installation accessories such as supports and clamps. The sizes given shall be verified by Supplier for adequacy and size based on manufacturer standards. | | | | |
| 279.1 | 25 mm (ID) | Rmt | 360 | Rs. (Rupees:) | Rs. (Rupees:) |
| 279.2 | 32 mm (ID) | Rmt | 528 | Rs. (Rupees:) | Rs. (Rupees:) |
| 280 | Supply, installation, testing and commissioning of Pressure testing of the entire system with Nitrogen and vaccumizing the nitrogen for all outdoor units as specified above and initial Charge of refrigerant gas - R 410 A for all outdoor units as specified above | Lot | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 281 | Termination for cables & MS Angles fabrication & all necessary clamps, etc for Mounting of Indoor & Out door Units. | Lot | 1 | Rs. (Rupees:) | Rs. (Rupees:) |
| 282 | Supply, laying and commissioning of required size Power and Communication cable with including all accessories and including connecting. | Rmt | 915 | Rs. (Rupees:) | Rs. (Rupees:) |

| S.No. | Description of Item | Unit | Qty | Rate | Amount in (Rs) |
|---------------------|---|------|-----|--------------------------------------|--------------------------------------|
| 283 | GSS Tray type support covered with GI sheet on top for all exposed copper pipes running on terrace/balcony. | Rmt | 96 | Rs. (Rupees:) | Rs. (Rupees:) |
| TOTAL AMOUNT | | | | | - |

Name of Project : ARMY COLLEGE OF DENTAL SCIENCES-R1
15 PASSENGER LIFT

| S.No | Description | Qty | Unit | Rate In Rs. | Amount In Rs. |
|------|--|-----|------|--------------------------------------|--------------------------------------|
| 284 | Supply,installation,testing & commissioning of 15 Passengers (Ground + 2) LIFT Specification for (Ground + 2). Type & Capacity : Passenger – 15 Persons (1020 Kgs) . Speed approx. : 1.0 Meter / Second. Gearless and Machine room less . No of floors serving : 3 Stops /Openings (Ground, 1, 2). Travel : 7.2 meters, Available 1670mm Width X3000mm Depth. Clear Opening : 800 mm Width X 2200mm Height . Car size (clear inside) approx. : 1000mm Wide x 2400 mm Deep X 2100 mm Height. No. of Entrances : One. Car body – SS Hairline.Car Ceiling : Deco Ceiling finish in SS Hairline.Car Flooring : Granite Flooring finish in Black Sea.Electric Light / Fan : Cross Flow Ventilation. Car Operating panel : Car operating panel with microstroke push button (With braille button) with 16 segments car position indicator car direction indicator. Combined hall button with segment digital display at all floors. Fireman's switch provided at main lobby. Car walls & cabin doors: S.S walls and Stainless steel door with vandal proof hair line finish. Landing doors : Fully automatic landing doors in stainless steel Hairline finish and landing door unit integrated on TOP floor door frame. Standard features : Protection against power fluctuations .overload detection.Automatic evacuation to nearest floor (ARD) .Auto fan and light off.Handrail stainless steel | | | | |
| | finish on rear wall. Attendant service via key switch. Power supply : 415 V three-phase 50 cycles A.C. Auxiliary Required : Single phase 220V 50 cycles A.C. Optional features : Intercom - 3way, completely safe with automatic rescue device and fireman control.Type of controller:full collectice control Duplex. | 1 | no | Rs. (Rupees:) | Rs. (Rupees:) |
| | TOTAL | | | | |

Name of Project : ARMY COLLEGE OF DENTAL SCIENCES-
50 KLD SEWAGE TREATMENT PLANT

| S.No | Description | Qty | Unit | Rate In Rs. | Amount In Rs. |
|------|---|-----|------|--|--|
| 284 | <p>Designing (hydraulically, structurally & aesthetically), providing, constructing, hydraulic testing, commissioning and giving satisfactory trials of STP consisting of</p> <ol style="list-style-type: none"> 1. Inlet chamber(RCC), 2. RCC chamber(manual) with Fine steel bar Screen, 3. Grit separator, 4. Equalization Tank, 5. Air Grid for Equalization Tanks, 6. Feed Pumps(2 No), 7. Decanter Tank , 8. Air Blowers & Diffusers for SBR, 9. Tube Settler assembly, 10. Sludge Drying Bed of appropriate size, 11. Chlorine Dosing System, <p>Foundation for all E/M equipments, Associated piping work with required valves, gates, drains, pathways, Electrical control Panel with interconnecting cable, spare parts for 2 years of operation, etc. complete as turnkey job with all involved civil, electrical, digital and mechanical works as per detailed technical specifications for civil, electrical and mechanical components & includes Tertiary</p> | | | | |
| | <p>treatment with Filter Feed Tank of RCC, Filter Feed Pumps, Dual Media Filter, Activated Carbon Filter, Treated water Tank in RCC. STP Treated Water can be used for irrigation Flushing & other misc works with all duties and taxes all complete as per approved GA drawings</p> <p>Note :Includes All civil , mechanical & electrical works all complete</p> | 1 | Set | Rs. (Rupees:) | Rs. (Rupees:) |
| | TOTAL | | | | |