

Name of Work-Construction/Upgradation of Secondary Schools,BRC Bhavan,ALS Hostel, KGBV at various Location in TAPI district.

| Item No. | Description Of Item | Quantity | Rate | Unit | Amount |
|----------|--|----------|---------|------|-------------|
| 1 | Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil | 1501.51 | 120.01 | Cmt. | 180196.0951 |
| 2 | Filling foundation and plinth with murrum or selected soil in layers of 20 cm. thickness including watering, ramming and consolidation etc. complete. | 1198.01 | 296.29 | Cmt. | 354959.1236 |
| 3 | Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:6. (1- Cement : 6 -fine sand)(C) Fly Ash Bricks | 237.13 | 4400.04 | Cmt. | 1043390.285 |
| 4 | Brick work using common burnt clay building bricks having crushing strength not less than 35Kg./Sq.Cm. for superstructure in cement mortar 1:6(1 cement :6 fine sand) including curing etc. complete. (C) Fly Ash Bricks For all heights and all floor | 557.55 | 4681.90 | Cmt. | 2610376.022 |
| 5 | Providing & laying Cement Concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 graded stone aggregate 20 mm nominal size) & curing complete including cost of form work (A) Foundation and Plinth - Below Tie beam, Plinth protection & surface leveling work. | 255.58 | 3786.47 | Cmt. | 967730.8567 |
| 6 | Providing and laying controlled cement concrete M.150 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete (Cement Level 290 Kg) | 159.74 | 4246.65 | Cmt. | 678338.6378 |
| 7 | Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Coping Vertical and horizontal for all floor (Cement Level 360 Kg) | 47.92 | 6375.70 | Cmt. | 305526.7319 |
| 8 | Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts all floor (Cement Level 360 Kg) | 31.95 | 7003.60 | Cmt. | 223744.0092 |
| 9 | Providing I.S.I. T.M.T Bars Fe.500D steel reinforcement (ISI mark) Confirmed to IS-1786 for R.C.C.work including Cutting, bending, binding and placing in position etc. complete.For all floors | 34211.90 | 77.29 | Kg. | 2644238.022 |
| 10 | Providing 15mm thick cement plaster in single coat on rough or fair side of single or half brick wall for interior plastering in cement mortar 1:4(1 cement 4 sand) watering, curing etc. complete.For all floors | 7523.52 | 219.47 | Smt | 1651186.605 |
| 11 | Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete. The rate shall be including of providing two coats of primer of approved brand and manufacturer on new wall surfaces to give an even shade including throughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth. | 7523.52 | 117.40 | Smt | 883261.0719 |
| 12 | Providing and laying 25mm thick polished Kota stone flooring/staircase treads (two pieces with three grooves in front of steps) over 20mm (average) thick base of cement mortar 1:6 (1 cement 6 coarse sand) laid over and jointed with grey cement slurry including curing, rubbing, and polishing etc. complete. | 5.46 | 1015.82 | Smt | 5546.3772 |

| Item No. | Description Of Item | Quantity | Rate | Unit | Amount |
|----------|--|----------|----------|------|-------------|
| 13 | Providing and fixing FRP frame size 100x50 mm and 28mm thick FRP depress panel shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected fire retardant grade polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & finitues. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & alluminium fixtures & fastenings & fastener sleeve. | 15.00 | 2377.76 | Smt | 35666.4 |
| 14 | Steel work, M.S Grill, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like | 6054.83 | 91.08 | Kg. | 551473.9164 |
| 15 | Providing and laying white glazed tiles 6mm thick in skirting, riser of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3 coarse sand) and jointed with white cement slurry. | 18.26 | 922.88 | Smt | 16851.7888 |
| 16 | Providing upto floor two level precast cement concrete jali or grill 1:2:4 mix (1- Cement : 2- coarse sand : 4-graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia. Mild steel wire including roughening, cleaning, fixing and finishing in cement mortar 1:3 and curing complete.(E) 100mm thick | 974.38 | 840.42 | Smt | 818891.3811 |
| 17 | Providing and fixing 0.90 meter high fencing with 1.20 meter long M.S. Angle posts 40 mm. X 40 mm. X 6 mm. And oil painting 3 coats fixed at 2.5 mt. C/c with Three horizontal lines and two diagonals of galvanised steel barbed wire weighing 9.38 Kg. Per 100 meter, strained and fixed to posts with G.I. staples, including fixing posts in compound wall | 440.00 | 164.89 | Rmt | 72551.6 |
| 18 | Providing and fixing of highly durable precoated Roofing Sheets having high quality color coating throughout the roof and having minimum 0.6 mm thickness .The Color Coated sheet Roofing fixed with galvanized iron /color powder coated J or L Hooks, Bolts and nuts 8mm diameter with bitumen and G.I. limpet washer or color powder coated limpet washer. filled with white lead complete as per approved sample and color as directed by engineer in charge | 173.31 | 1098.53 | Smt | 190386.2343 |
| 19 | Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in (a) Foundations, footings Bases of columns and the like and Mass concrete work in footing. (Cement Level 360 Kg) | 207.66 | 4189.88 | Cmt. | 870051.6263 |
| 20 | Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in Plinth Beams. (Cement Level 360 Kg) | 175.71 | 5965.46 | Cmt. | 1048182.028 |
| 21 | Construction of a soak well of as per the approved drawing & design etc.in all sort of soil complete as directed and approved by engineer incharge.(The internal In-to-in dimension shall be considered for calculation) | 10.00 | 5842.61 | Cmt. | 58426.1 |
| 22 | Construction of a septic tank as per the approved drawing & design etc.in all sort of soil complete as directed and approved by engineer incharge. (The internal In-to-in dimension shall be considered for calculation) | 14.00 | 10707.36 | Cmt. | 149903.04 |
| 23 | Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia. | 10.00 | 186.83 | NO | 1868.3 |

| Item No. | Description Of Item | Quantity | Rate | Unit | Amount |
|----------|--|----------|---------|------|------------|
| 24 | Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slab with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line. | 3.00 | 3175.32 | NO | 9525.96 |
| 25 | Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(G) 160 mm dia | 12.00 | 580.75 | Rmt | 6969 |
| 26 | Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(G) 110 mm dia | 18.00 | 275.73 | Rmt | 4963.14 |
| 27 | Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(F) 75 mm dia | 18.00 | 133.32 | Rmt | 2399.76 |
| 28 | Providing & erecting fibre reinforced 32 mm PVC flexible pipe with brass locking nuts & washers & clips at both ends complete erected without leakage-1.0 Mtr | 35.50 | 242.40 | NO | 8605.2 |
| 29 | Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement | 19.25 | 1099.95 | Smt | 21174.0375 |
| 30 | Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete Cat. III | 10.00 | 350.47 | Pt. | 3504.7 |
| 31 | Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III | 10.00 | 489.85 | Pt. | 4898.5 |
| 32 | Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III | 10.00 | 364.61 | Pt. | 3646.1 |

| Item No. | Description Of Item | Quantity | Rate | Unit | Amount |
|----------|--|----------|--------|------|---------|
| 33 | Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessoriesCat. III | 10.00 | 241.39 | Pt. | 2413.9 |
| 34 | Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(7) Blank Plate Single,Cat.III | 10.00 | 24.24 | No | 242.4 |
| 35 | Providing and erecting ISI mark embossed Medium class RIGID PVC PIPES (F.R.L.S.)of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (a) 20 mm | 300.00 | 23.23 | Rmt | 6969 |
| 36 | Providing and erecting ISI mark embossed Medium class RIGID PVC PIPES (F.R.L.S.) of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm | 40.00 | 32.32 | Rmt | 1292.8 |
| 37 | Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm | 50.00 | 20.20 | Rmt | 1010 |
| 38 | Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe.(b) 2 wire 2.5 sq. mm | 25.00 | 59.59 | Rmt | 1489.75 |
| 39 | providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(a) 2 wire 4 sq. mm | 50.00 | 82.82 | Rmt | 4141 |
| 40 | providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(b) 2 wire 6 sq. mm | 15.00 | 116.15 | Rmt | 1742.25 |
| 41 | providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(g) 4 wire 4 sq. mm | 30.00 | 148.47 | Rmt | 4454.1 |
| 42 | Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.),(A) Tube Light with integral driver,(ii) 20 Watts, Surge - 2KV,IP-20, conventional 4 feet,Cat-III | 12.00 | 295.93 | No | 3551.16 |

| Item No. | Description Of Item | Quantity | Rate | Unit | Amount |
|----------|---|----------|---------|------|----------|
| 43 | providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark , Cat.III | 36.00 | 112.11 | No | 4035.96 |
| 44 | Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity ,(A) 6 to 32 Amp. Cat.III | 6.00 | 299.97 | No | 1799.82 |
| 45 | Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB. | 6.00 | 176.75 | No | 1060.5 |
| 46 | Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door,(ii)6 way | 2.00 | 2913.85 | No | 5827.7 |
| 47 | Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door,(ii)6 way (IP-43) | 1.00 | 885.77 | No | 885.77 |
| 48 | Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551 | 4.00 | 26.26 | No | 105.04 |
| 49 | Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistance of installation.(a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg. | 2.00 | 4591.46 | No | 9182.92 |
| 50 | Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/2.5 to 6 Sq.mm | 20.00 | 8.08 | No | 161.6 |
| 51 | Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge)) | 8.00 | 1948.29 | No | 15586.32 |
| 52 | Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing. | 8.00 | 108.07 | Rmt | 864.56 |
| 53 | Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing. | 8.00 | 108.07 | No | 864.56 |

