

SCHEDULE - B						
Name of Work = Beautification of surroundings of Buildings/Quarters at Gopalpuri RENAMED AS "Beautification of Gopalpuri Colony (Widening of the entry gate and enhancement of surrounding approaches)".						
Sr No	Description of items	Quantity	Unit	Rate	Amount(In Figures)	Amount(In Word)
1	Dismantling the existing security cabin/entry gate/road side drain/compound wall including removing / separating out the salvage materials like doors & windows masonry, reinforcement etc as & where position complete including removing the foundation and filling the unwanted material outside Gopalpuri upto 4 km lead, prepare the surface for reconstruction of the beautification of gopalpuri main gate & approach as directed by the Engineer-in-charge . (Measurement will be done based on slab area)	288.00	SQ.M			
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, All kinds of soil. /filled material/ Road crust consisting of bitumen surface and metalling etc as directed by engineer-in-charge.	3321.00	CUM			
3	Taking out existing CC interlocking paver blocks from footpath with kerb stone/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	1629.00	SQM			
4	Disposal of excavated material lead upto 2 km beyond 1.5 km and lift upto 1.5 m, as directed by Engineer-in-charge.All kinds of soil. /filled material/ Road crust consisting of bitumen surface and metalling etc.	2159.00	CUM			
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	830.00	CUM			
6	Providing and filling rubbles including hand packing and filling interstices & preparing surface etc complete as per drawings & as directed by EIC	332.00	CUM			
7	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	880.00	CUM			
8	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity and dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade as directed by engineer-in Charge	3069.58	M2			

9	Construction of dry lean cement concrete sub-base over a prepared sub- grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in-charge.	309.00	CUM			
10	Providing and fixing Black Linear low-density polyethylene (LDPE) Sheets 250 Microns thick as a separation layer over Dry lean cement concrete (DLC) / Plain cement concrete (PCC) complete all labour and material as directed by Engineer-in- charge.	3094.00	M2			
11	Providing and laying Pavement Quality Concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate as per approved & specified design criteria, using approved admixture providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using slip form concrete paver with electronic sensors, levelling to required slope/ camber, finishing with required texture, curing, making provision for contraction/expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in- charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). (Cost is exclusive of Reinforcement). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess./less cement used as per design mix is payable/ recoverable separately.					
A	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer and laying with slip form paver.	619.00	CUM			
B	Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.	619.00	LTR			
C	Extra for providing and mixing poly-propylene fiber of approved quality as per manufacturer's specification in cement concrete.	557.10	Kg			
D	Providing and laying/Filling of joints by Using poly sulphite sealing compound after proper cleaning the dust from grooves of 10mm X 50mm Using grade 'A' sealing compound as directed by Engineer-in- charge.	3094.26	per cm depth per cm width per m length			
12	Providing and fixing mild steel round dowel straight bars of grade S 240 and Tie Bars conforming, to IS 432, Part -I including two coats bond breaking layer of bitumen for one half length and provided with expansion cap at the painted end filled with cotton waste or other compressible material to maintain sufficient gap between bar end and the inside of the cap. Complete all labour and material as directed by Engineer in Charge.					
A	DOWEL BAR : 25MM DIA, Length - 450 mm, 300 mm C/C Provided	2063.00	Nos			
B	Tie BAR : 12MM DIA, Length - 640 mm, 900 mm C/C Provided	361.57	Kgs			
13	Supplying and fixing retro reflective sign boards made up of 6 mm thick MS Plate,Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm & Rectangale shape having 900x600 made up with ISA 20x20x3, support length of 2000mm complete including foundation and fixing as directed by engineer-in-charge.					
A	Rectangle Type	15.00	Each			

B	Triangle Type	15.00	Each			
14	Providing Trapezium HDPE ROAD BARRIER of height 1000mm as directed by engineer-in-charge.	10.00	Each			
15	Providing and applying 2.5 mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	93.00	SQ.M			
16	Providing and Fixing Road Studs Inbuilt Solar light Cat Eye Size 125x125x25mm as directed by engineer in-charge.	153.00	EACH			
17	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	324.00	CUM			
18	Laying old cement concrete interlocking paver blocks of any design/shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer- incharge. (Old CC paver blocks shall be supplied by the department free of cost).	210.00	SQ.M			
19	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	529.00	CUM			
20	Providing and laying factory made chamfered edge Cement Concrete paver blocks in foot path, park & lawns driveway 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 50mm thick compacted bed of coarse sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications: 60 mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern.	2196.00	SQM			
21	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (Precast C.C. kerb stone shall be approved by engineer in charge) SIZE : 600X300X125MM	98.00	CUM			
22	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	113.00	CUM			

23	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. "(Note :- Cement content considered in this item is @ 330 kg/cum."Excess/ less cement used as per design mix is payable/recoverable separately). Providing M-30 grade concrete instead of M-25	854.00	CUM			
24	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
A	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	2432.00	SQM			
B	Suspended floors, roofs, landings, balconies and access platform	783.00	SQM			
C	Columns, Pillars, Piers, Abutments, Posts and Struts	65.00	SQM			
D	Lintels, beams, plinth beams, girders, bressumers and cantilevers	402.00	SQM			
E	Foundations, footings, bases of columns, etc. for mass concrete	461.00	SQM			
25	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level Thermo-Mechanically Treated bars of grade Fe-500D or more.	245542.00	Kgs			
26	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	3070.00	Sq.m			
27	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	191.00	Sq.m			
28	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	199.00	Cum			
29	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand),furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in- charge.	3054.00	Sq.m			
30	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	191.00	Sq.m			
31	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer	191.00	SQ.M			
32	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two or more coats	191.00	SQ.M			

33	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.	66.00	Sq.m			
34	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	5.00	Sq.m			
35	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	53.00	Sq.m			
36	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I.wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills,diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	8.00	SQM			
37	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	21827.00	KGS			
38	Providing and fixing stainless steel following hardware fixtures with stainless steel screws, nut & bolts etc. complete as per approved make an directed by Engineer-in Charge.					
A	Aldrops 300x16 mm Size	7.00	each			
B	Door Latch 250x16x5 mm Size	7.00	each			
C	Handle 150 mm	14.00	each			
D	Tower Bolts 200 mm Size	7.00	each			
E	Floor door stopper with rubber cusion 150mm size	7.00	each			

39	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab over 0.50 sqm.	294.00	SQ.M			
40	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	44.00	SQ.M			
41	Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge.	52.00	RMT			
42	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm	96.00	SQ.M			
43	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm, mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.	44.00	SQ.M			
44	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. 40 mm thick with 20 mm nominal size stone aggregate	44.00	SQM			
45	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with full height pedestal with a 15 mm C.P. brass pillar tap	4.00	EACH			
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.					

a	15 mm nominal outer dia Pipes	400.00	mtr			
b	20 mm nominal outer dia Pipes	400.00	mtr			
c	25 mm nominal outer dia Pipes	400.00	mtr			
47	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	5.00	CUM			
48	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and Fixing 1.5 mm decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality on both faces of shutters and four side faces covered teak wood batten patti all complete as directed by Engineer in charge. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	14.00	SQ.M			
49	Providing and fixing Aluminium Louvers of required sizes with frame and 4mm glass panes complete as per direction of engineer in charge.	1.00	Sqm			
50	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15)	254.35	KG			
51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge.: With float glass panes of 5.5 mm thickness.(weight not less than 12.50 kg/ sqm)	21.20	SQM			
52	Filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge.Upto 5mm depth and 5 mm width	511.94	RMT			
53	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, (for payment purpose only weight of stainless steel members shall be considered including fixing accessories such as nuts, bolts,fasteners etc.).	1344.00	KG			

54	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :15 mm nominal bore.	11.00	EACH			
55	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.15 mm nominal bore.	11.00	EACH			
56	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	4.00	EACH			
57	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete	4.00	EACH			
58	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal.	3.00	EACH			
59	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	7.00	each			
60	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in -charge.	4.00	each			
61	Providing and fixing PVC soil waste pipe as per IS 4985 including Y bends Elbow ,T of the require suitable size of the pipe ,the rates are including fitting, cutting , bending complete as per direction of Engineer In- Charge.					
a	75 mm Dia pipe	200.00	Mtr			
b	110 mm dia.(outer Dia)	200.00	mtr			
62	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1500.00	LTR			
63	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets : with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	6.00	each			

64	Extra for depth beyond 45 cm of brick masonry chamber : For 500x700 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.50	mtr			
65	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4.00	each			
66	Extra for depth for manholes : Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.80	mtr			
67	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 150 mm dia. R.C.C. pipe	200.00	mtr			
68	Providing and fixing bus stand of size 2.4 metre by 10 metre by 3 metre. The material used for bus stand will be of stainless steel .The roof of bus stand should be 1mm thick stainglass steel sheet other material will be round or square ss pipe as design given by engineer in charge. The sitting arrangement will be provide in bus stand of size . All material will be only stain glass steel SS304 material , labour , any foundation work etc. all as directed by engineer in charge	2.00	EACH			
69	Providing Fountain (Bubler in entry of Gopalpuri Township for beautification of main entry including required PVC pipes fittings, Nozzles, Motors, coloured lights, required electric wiring, storage facilities for required water, any civil work if required, mechanical and electric work etc.. All complete with required all material, labour as directed by Engineer-in-charge. (10 meter long and 1 meter wide) Type of Fountain Outdoor Fountain, Static Fountain, Finish of Water Body-Tiles Material of Nozzle-Stainless Steel, Number of Programmable Water Proof Lights 20 Watt To 30 Watt-8, Number of Programmable Water Proof Lights 5 Watt To 10 Watt-4, Complex Programmable Logic Device (CPLD) complete. Maintenance Period 1 (Years)	4.00	EACH			
70	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.	558.00	SQ.M			
71	Supplying, planting and maintaining Decorative Ornamental Plam Trees plants of heights minimum 10 feet in entry of Gopalpuri Township. The plant will be of palm, coconut, flowers as approved by engineer in charge As directed .	200.00	Each			

72	Transplantation of trees with in a distance of 2km including excavation around existing tree, pruning of branches, lifting, loading and transportation of existing tree, digging pits for placing tree at new place, adding manure, sand, fertilizer, hormones and bio fertilizer to it. Levelled and neatly dressed and disposal of surplus materials from old existing and new sites to designated place. Each tree should be firmly secured to the stake so as to prevent excessive movement, flooding with water, treatment of roots, rope and gunny bags as per direction of the officer incharge. T&P and all required materials shall be arranged by the contractor and nothing extra shall be paid on this account. (a) Girth of tree shall be measured at a height of 1m above ground level					
a	Girth of trees upto 50cm.	100.00	Each tree			
b	Girth of trees beyond 50cm and upto 90cm	100.00	Each tree			
c	Girth of trees beyond 90cm and upto 150cm	100.00	Each tree			
d	Girth of trees beyond 150cm	100.00	Each tree			
73	Providing and Fixing Digital Out Door LED Display Board with speaker of LG Brand, Size 8 ft x 8 ft including required RCC foundation, RCC padastal, RCC frame work,Cabinet Material Alluminium for display board, electrical connection with required wiring, painting with proper height including all material labours etc ,operate training as directed by Engineer-in-charge.	1.00	EACH			
74	Providing and Fixing Digital LED Name Board with LOGO with required wiring work at any height including with all material and labours etc as directed by engineer-in-charge					
	Each Latter 1' x 1' (DEENDAYAL PORT AURTHORITY-GOPALPURI COLONY)	38.00	Per Letter			
	Logo 4' Dia	1.00	Each			
75	Providing and fixing 3 - Seater Stainless Steel Benches and With Back Rest SURFACE MOUNT STAINLESS STEEL BENCH conforming to RDSO specnetc,Material for bench Stainless steel 304 Grade conforming to IS : 6911 / ASTM A240 / A240M Length of Bench 1300 mm (for 3 - seater) Length of Back rest 1300 mm (For 3 - seater) Width of Back rest 300 mm Seat and Back rest connecting pipe size 40 mm dia X 2 mm thickness Clear Height of Bench with back rest 890 mm all complete as directed by engineer in charge	12.00	EACH			
76	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)	1843.00	CUM			
77	Supplying and stacking at site dump manure from approved source,including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) : Screened through sieve of I.S. designation 16 mm	553.00	CUM			
78	Mixing and Filling of earth and manure in the required proportion specified or directed by the Officer-in-charge. (cost of supplying earth and manure excluded).	2396.00	CUM			
79	Supply and setup security cabin furniture as directed by engineer-in-charge					
A	Executive Table,Depth-600mm,Length-1050mm,Ply Thickness-25mm with drawer and locks	1.00	Each			
B	Office Chair Non-revolving and non-tilting chair with armrest,Section Size-19mm,Height-400mm,Width-400mm	4.00	Each			
C	Wooden Almirah / Wardrobe without Mirror with 5 Shelve,Height-1500mm,Depth-425mm,Width-1050mm,with RFDI Lock,Material-Particle Board	1.00	Each			

80	Shifting of exting CCTV Camera with all system ,Telephone connection & networking as per direction of engineer-in-charge.	1.00	JOB WORK			
81	Finishing walls with textured exterior paint of requiredshade ,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	2100.00	SQM			
82	Stone Pebble Epoxy Flooring with 1:4 Cemnent Mortar on base fully filled with Epoxy with rounded pebble size less than 15mm angular as per direction of engineer-in-charge	180.00	SQM			
83	Supply & Fixing Stainless Steel Dust Bin 2 Bin Mounted with 3 Pole capacity 100 ltr as per direction of engineer-in-charge	10.00	Each			
84	Providing & laying Selection no. 1 doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of engineer in charge	1000.00	SQ.M			
85	Taking away all Dismantling scrape material like reinforcement steel,cow-catcher,steel gate etc and shift to the Kandla Location as per direction of engineer-in-charge.	4.00	Trip			

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ELECTRICAL PART

Name of Work: Beautification of Gopalpuri Colony (Widening of the entry gate and enhancement of surrounding approaches).

Sr No	Description	Qty	Unit	Rate	Amount(In Figures)	Amount(In Word)
1	Supply, Installation, Testing and Commissioning of Four Pole Structure with 11 Mtr. RSJ Pole as per requirement of PGVCL for installation of CT&PT combined including metering panel as per Technical Specification No. 1.	2	Comp. Set			
2	Removal of existing deteriorated four pole structure including its accessories from site as per technical specification No. 2.	1	Job			
3	Removal of RSJ pole of 11 Mtr Height including ACSR conductor & its accessories					

	as per technical specification No. 3.	5	No.			
4	Supply at site XLPE 3C X 300 sq.mm insulated armoured aluminium conductor cable as per Technical Specification No. 4	500	Mtr.			
5	Laying of Double Circuit (Two Parallel Cables) 3C X 300 sq.mm (E) XLPE Cable through various mediums as per Technical Specification No. 5.					
(a)	Through Hard / Soft Soil excavation and laying through Half Round Pipe (2 Nos.) 6" inner Diameter and 1 Meter length as per Technical Specification No. 5(a). (350 Mtr. (Total both cable) Route Length 175 Mtr.)	350	Mtr.			
(b)	Through RCC/Road Crossing by making horizontal boring & putting suitable diameter HDPE pipe in between crossing including preparing of Manhole underground chamber as per Technical Specification No. 5(b). (150 Mtr. (Total both cable) Route Length 75 Mtr.)	150	Mtr.			
6	Supply at site 4 Core, LT armoured aluminium conductor XLPE cable of 1.1kV grade of following type & size as per Technical Specification No. 6.					
(a)	4 Core X 150 Sq.mm	400	Mtr.			
(b)	4 Core X 95 Sq.mm	400	Mtr.			
(c)	4 Core X 70 Sq.mm	300	Mtr.			
(d)	4 Core X 50 Sq.mm	2000	Mtr.			
(e)	4 Core X 16 Sq.mm	1000	Mtr.			
7	Laying of LT armoured aluminium conductor XLPE cable of 1.1kV grade of size 4 core, 35 Sq.mm through following type as per Technical Specification No. 7.					
(a)	Hard/Soft Soil	2700	Mtr.			
(b)	Road/RCC Crossing	800	Mtr.			
(c)	On wall through saddles & clamps	500	Mtr.			
(d)	In GI Class-B Pipe	100	Mtr.			
8	Design & Supply of LT Distribution Panels as per Technical Specification No. 8.					
(a)	15 Ways (2 I/C, 1 Bus Coupler, 12 O/G).	1	No.			
(b)	12 Ways (2 I/C, 1 Bus Coupler, 9 O/G).	1	No.			

9	Installation, Testing & commissioning LT Distribution panel as per Technical specification No. 9.					
(a)	15 Ways (2 I/C, 1 Bus Coupler, 12 O/G).	1	No.			
(b)	12 Ways (2 I/C, 1 Bus Coupler, 9 O/G).	1	No.			
10	Supply, Installation, testing,& commissioning of 9 mtr high octagonal GI Pole with single arm of 1500 mm including all accessories and lighting fixtures for quay & walkway illumination and as per technical specification No 10.					
(a)	Supply	20	No.			
(b)	Installation, testing & commissioning	20	No.			
11	Removal of following types of Pole including its accessories as per technical specification No. 11					
(a)	Tubular pole with dome light.	33	No.			
(b)	PSC Pole with over head conductor and street light	13	No.			
12	Supply Installation testing & commissioning of guarding to 20 Mtr High mast GI tower along with guarding foundation .The guarding is to be fabricated from MS angle of 75x75x6mm duly welded and bolted to form square guarding of 5mtrx5mtr complete with painting two coat metal primer & two coat final finish enamel paint ,work include complete labour & materials and as per technical specification No. 12.					
(a)	Supply	3	No.			
(b)	Installation, testing & commissioning	3	No.			
13	Removal of RGB Lights from its location and new RGB light of same specification i.e. 40 watt, cool white, IP65/66, light fixtures with optical lens of reputed make to be install at new location including its testing & commissioning. This also includes its wiring and New DRX panel of suitable capacity as per tech. specification no. 13.	74	No.			
14	Supply, Installation, Testing & Commissioning of 12/15 watt, water proof					

	IP68, RGB light fixtures for use as Fountain lights for underwater lights with optical lens of reputed make and as per Technical Specification No. 14.					
(a)	Supply	100	No.			
(b)	Installation, Testing & Commissioning	100	No.			
15	Supply, Installation , testing & Commissioning of Main Entrance Illumination by Neon lighting of size of 300mm and above to be named as "DPA Township, Gopalpuri" in Hindi & English as per Technical Specification No. 15	1	Job			
16	Supply, Installation , testing & Commissioning of multi coloured Ribbon light at Main Entrance of Gopalpuri Township as per Technical Specification No. 16.	500	Mtr.			
17	Supply, Installation, Testing & Commissioning of Feeder Pillar Panel, stand mounted, outdoor type for timely auto operation of lighting and as per Technical Specification No. 17.					
(a)	Supply	6	No.			
(b)	Installation, Testing & Commissioning	6	No.			
18	Providing and fixing of indoor/outdoor end termination kit and Straight through kit to HT/LT XLPE Cables of following sizes with heat shrink end termination kit as per Technical Specification No. 18.					
(A)	End Termination Kit (Outdoor)					
(a)	HT 3 core x 300 Sq.mm					
(i)	Providing	6	No.			
(ii)	Fixing	6	No.			
(B)	End Termination Kit (Indoor)					
(a)	HT 3 core x 300 Sq.mm					
(i)	Providing	2	No.			
(ii)	Fixing	2	No.			
(C)	Straight Through Kit					
(a)	LT 4 core x X 16-150 sq. mm					
(i)	Providing	20	No.			
(ii)	Fixing	20	No.			
19	Supply, Installation, Testing and Commissioning of 500kVA 11/0.43kV					

	Outdoor type Compact Substation with HT Panel, Transformer, LT Panel, Protection and Metering Device, etc. and other relevant accessories in a suitable enclosure with IP54 as per Tech. Specification No. 19.					
(a)	Supply	1	No.			
(b)	Erection testing & Commissioning	1	No.			
20	Providing & fixing of following concealed wiring for single phase sub-circuit from the main switch /meter. DBs / MCBs to the switch board as per Technical Specification No. 20.					
(a)	with 2 x 2.5 sq.mm. copper conductor (single phase and neutral)	100	Mtr.			
21	Providing and Fixing of concealed wiring for light/tube/bell point with PVC insulated single core standard 1.5 Sq.mm. copper conductor wire as per Technical Specification No. 21.	15	No.			
22	Providing and Fixing of concealed wiring for Fan point with PVC insulated single core standard 1.5 Sq.mm. copper conductor wire & single/twin module step cut electronic fan regulator as case may be as per Technical Specification No. 22.	2	No.			
23	Providing and fixing of concealed wiring for 5/6A X250 Volt as per Technical Specification No. 23.					
(a)	(a) Full plug point.	4	No.			
(b)	(b)Half Plug Point.	5	No.			
24	Providing and fixing of concealed wiring for 15/16A X250 Volt Power point as per Technical Specification No. 24.	4	No.			
25	Providing and fixing of concealed wiring for AC Point 20A X 230 V with individual Switch & Socket as per Technical Specification No. 25.	1	No.			
26	Providing and fixing of concealed wiring for 3 x 5/6A X250 Volt Plug point with 3 No. SP switches for computer as per Technical Specification No. 26.	2	No.			

27	Supply & installation of following type distribution board along with complete with DP, SP MCB & ELCB as per Technical specification No. 27.					
(a)	Supply	2	No.			
(b)	Installation & Commissioning	2	No.			
28	Preparation earthing station, chemical treated back filled compound earthing system with Pipe-In-Pipe 50 mm Dia GI type 3 Mtr Depth, Maintenance free as per Technical Specification No. 28.	50	No.			
29	Supply, Laying, connecting of GI Strips Connecting earth station to the equipment as per Technical Specification No. 29.					
(a)	25x3mm thick					
(I)	Supply	400	Mtr			
(II)	Laying, connecting	400	Mtr.			
30	Providing & connecting of following type earth wire for earth station to Main DB / Meter/SB as per requirement as per Technical Specification No. 30.					
(a)	8 SWG GI earthing wire.	1500	Mtr.			

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