

**Annexure- I**

**Name of work: “Provision for entrance gate with two big display boards on G.T. Road and within the FFDC Campus, Kannauj.”**

Sl. No.	Description of Items	Quantity	Unit
1	<b>EARTH WORK</b>		
1.1	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 disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be leveled and neatly dressed.		
1.1.1	All kinds of soil.	41	Cum.
1.2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	41	Cum.
1.3	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.		
1.3.1	All kinds of soil.	4	Cum.
1.4	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	100	100 Sqm.
2	<b>CONCRETE WORK</b>		
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level:		
2.1.1	1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	0.50	Cum.
2.1.2	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	4.50	Cum.
2.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing:		
2.2.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	0.25	Cum.
2.3	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	4	Sqm.
2.4	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	1	Per 50 kg cement
2.5	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	4	Sqm.
3	<b>REINFORCED CEMENT CONCRETE</b>		
3.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement- All work upto plinth level:		
3.1.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	19	Cum.

Sl. No.	Description of Items	Quantity	Unit
3.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement:		
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	7	Cum.
3.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	15	Cum.
3.4	Centring and shuttering including strutting, propping etc. and removal of form for:		
3.4.1	Foundations, footings, bases of columns, etc. for mass concrete.	30	Sqm.
3.4.2	Suspended floors, roofs, landings, balconies and access platform.	50	Sqm.
3.4.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	60	Sqm.
3.4.4	Columns, Pillars, Piers, Abutments, Posts and Struts.	66	Sqm.
3.4.5	Extra for shuttering in circular work (20 % if respective centring and shuttering items.)	13	Sqm.
3.4.6	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	5	Sqm.
3.4.7	Edges of slabs and breaks in floors and walls.		
3.4.7.1	Under 20 cm wide.	24	Metre
3.4.8	Weather shade, Chajjas, corbels etc., including edges.	20	Sqm.
3.5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		
3.5.1	Cold twisted bars.	7200	Kilogram
3.6	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	280	Sqm.
4	<b>BRICK WORK</b>		
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:		
4.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	6	Cum.
4.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in:		
4.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	7.50	Cum.
4.3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.		
4.3.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand.)	2	Sqm.
5	<b>STEEL WORK</b>		
5.1	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
5.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	975	Kilogram
6	<b>FINISHING</b>		
6.1	12 mm cement plaster of mix:		
6.1.1	1:6 (1 cement : 6 coarse sand)	40	Sqm.

Sl. No.	Description of Items	Quantity	Unit
6.2	15 mm cement plaster on rough side of single or half brick wall of mix:		
6.2.1	1:6 ( 1 cement : 6 coarse sand)	20	Sqm.
6.3	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)	40	Sqm.
6.4	Extra for plastering on circular work not exceeding 6 m in radius:		
6.4.1	In one coat.	66	Sqm.
6.5	Finishing walls with Acrylic Smooth exterior paint of required shade:		
6.5.1	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.)	340	Sqm.
6.6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:		
6.6.1	Two or more coats on new work.	10	Sqm.
6.7	Washed stone grit plaster on exterior walls of height upto 10 M. above 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 15mm cement plaster 1:1/2:2 (1 cement : ½ 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 (Payment for providing grooves shall be made separately).	8	Sqm.
6.8	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge:		
6.8.1	15 mm wide and 15 mm deep groove.	20	Metre
7	<b>DISMANTLING &amp; DEMOLISHING</b>		
7.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.		
7.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).	2	Cum.
7.1.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix).	2	Cum.
7.2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		
7.2.1	In cement mortar.	13	Cum.
7.3	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (Stacks of cleaned bricks shall be measured.)		
7.3.1	From brick work in cement mortar.	1870	1000Nos.
7.4	Credit of bricks received from dismantling and permitted to reuse.	1870	Each
7.5	Credit of steel bars, M.S. steel sections etc. received from dismantling.	185	Kilogram
7.6	Taking out of M.S. grill of size 3 m x 0.60 m from boundary wall by dismantling C.C. blocks and stacking the same within 50 metre lead all as per direction of the Engineer-in-charge.	5	Each
7.7	Cutting of M.S. grill in required size by welding machine and making in the new size as per site requirement including carriage of grill to market and back all as per direction of the Engineer-in-charge.	2	Each
7.8	Extra for using R.C.C. 1:1.5:3 instead of R.C.C. 1:2:4 in slab beams and columns.	15	Cum.
7.9	Providing and pasting, water proof fluorescent sheet letters including a under layer of fluorescent base sheet of approved quality all as per direction of the Engineer-in-charge.	15	Sqm.

Sl. No.	Description of Items	Quantity	Unit
7.10	Providing and placing architectural corner beading of size 125 x 125 mm of approved design made with plaster of paris and white cement (4:1, 4 plaster of paris : 1 white cement) including cost of material, shuttering etc. all complete as per direction of the Engineer-in-charge.	100	Metre
7.11	Providing vertical groove of size 15 mm x 15mm on 400mm dia. RCC columns with plaster of paris and white cement 94:1, 4 plaster of Paris : 1 white cement) including cost of material all as per direction of the Engineer-in-charge.	60	Sqm.
8	<b>WATER SUPPLY</b>		
8.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. : Internal work – Exposed on wall.		
8.1.1	50 mm dia. Nominal bore.	16	Metre
9	<b>WIRING</b>		
9.1	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc. as required.		
9.1.1	Group B.	10	Point
9.2	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc. as required.	4	Point
9.3	Wiring for light/ power plug with 4 x 4 sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 nos. 4 sq.mm FR PVC insulated copper conductor single core cable for loop earthing as required.	20	Metre
9.4	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.		
9.4.1	1 x 1.5 sq.mm.	30	Metre
9.4.2	2 x 6 sq.mm.	20	Metre
9.5	Supplying and fixing of following sizes of steel conduit along with accessories in surface/ recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.		
9.5.1	20 mm.	30	Metre
9.6	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular place etc. as required.		
9.6.1	15/ 16 amp switch.	2	Each
9.6.2	3 pin 5/6 amp socket outlet.	2	Each
9.6.3	6 pin 15/16 amp socket outlet.	2	Each
9.7	Providing and fixing gate pillar luminaries for gate pole of approved make and quality as per direction of the Engineer-in-charge. (HPC102 of make PHILIPS or equivalent).	4	Each
9.8	Providing and fixing sodium vapour metal helide light of approved quality all as per direction of the Engineer-in-charge. (SGP401 of make PHILIPS or equivalent).	3	Each
9.9	Providing and fixing recess mounted luminaries of approved quality all as per direction of the Engineer-in-charge. (FBS 300 2xPL-L36W PS EBT of make PHILIPS or equivalent).	5	Each