

Annexure-I

Name of work: "Provision of approach road from G.T. Road to existing tar coal road new nalla FFDC, Kannauj."

Sl. No.	Description of Items	Quantity	Unit
1	EARTH WORK		
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.	90	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.	90	Cum.
1.3	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.	700	100 Sqm.
2	CONCRETE WORK		
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	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	100	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).	10	Cum.
2.3	Centring and shuttering including strutting, propping etc. and removal of form work for:		
2.3.1	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	90	Sqm.
3	REINFORCED CEMENT CONCRETE		
3.1	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).	8	Cum.
3.2	Centring and shuttering including strutting propping etc. and removal of form for:		
3.2.1	Suspended floors, roofs, landings, balconies and access platform.	21	Sqm.
3.2.2	Edges of slabs and breaks in floors and walls.		
3.2.2.1	Under 20 cm wide.	26	Metre
3.3	Steel reinforcement for R.C.C. work including straightening, cutting,		

	bending, placing in position and binding all complete upto plinth level.		
3.3.1	Cold twisted bars.	2000	Kilogram
3.4	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	120	Sqm.
3.5	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	75	Metre
4	BRICK WORK		
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)	93	Cum.
5	FINISHING		
5.1	12 mm cement plaster of mix:		
5.1.1	1:6 (1 cement : 6 coarse sand)	30	Sqm.
5.2	15 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	10	Sqm.
5.2.1	1:6 (1 cement : 6 coarse sand)	30	Sqm.
5.3	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	10	Sqm.
5.4	Neat cement punning.	150	Sqm.
5.5	Finishing walls with Acrylic Smooth exterior paint of required shade:		
5.5.1	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.)	100	Sqm.
6	DISMANTLING & DEMOLISHING		
6.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.		
6.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).	3.50	Cum.
6.2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within metres lead as per direction of Engineer-in-charge.		
6.2.1	In cement mortar.	58	Cum.
6.3	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (Stacks of cleaned bricks shall be measured.)		
6.3.1	From brick work in cement mortar.	8350	1000Nos.
6.4	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of:		
6.4.1	'T' or 'L' iron or pipe.	65	Each
6.5	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	45	Kilogram
6.6	Credit of bricks received from dismantling and permitted to reuse.	8350	Each
6.7	Credit of steel bars, M.S. steel sections etc. received from dismantling.	195	Kilogram
6.8	Credit of unserviceable barbed wires received from dismantling.	45	Kilogram
6.9	Disposal of malba, building rubbish, brick bats etc. by manual/ mechanical transport including loading and unloading beyond municipal limit.	100	Cum.
6.10	Providing and fixing 100 mm wide, 6 mm thick AC sheet strip in expansion joints of C.C. road.	365	Metre
6.11	Extra for using R.C.C. 1:1.5:3 instead of R.C.C. 1:2:4 in slab beams and columns.	8	Cum.
6.12	Supplying and filling of good earth at site including royalty and carriage complete earth measured in stacks will be reduced by 20 % for:	730	Cum.

7	ROAD WORK		
7.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	63	Cum.
7.2	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-Charge.	275	Sqm.
8	DRAINAGE		
8.1	Providing, laying and jointing glazed stoneware pipes class SP-I with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:		
8.1.1	100 mm diameter.	36	Metre
8.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:		
8.2.1	100 mm diameter S.W. pipe	36	Metre
9	ELECTRICAL WORKS		
9.1	Supplying and fixing connecting and commissioning looping type cable end control box with M.S. sheet of 16 SWG of size 200 x 200 x 125 mm having 1 no. 6 amp to 32 amp SPMCB 250 volt and 2 nos. brass neutral link 12.5 mm square rod 6 way approx. 60 mm long and fixed on 5 mm thick Bakelite sheet. Box shall have almirah type hinge and panel key type lock from door duly painted with earthing strud etc. complete as required.	10	Each
9.2	Supplying and fixing, connecting and commissioning metal halide luminaire (Philips or equivalent) including CG box complete with lamp (HPFT PLUS Tubular 250W, 250V) etc. as required.	10	Each
9.3	Supplying and erection of ST pole 6 metre long (410-SP-30) suitable bended at the top for single arm with base plate 6 mm thick and 300 x 300 x 6mm size and cap including CC foundation complete 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 40 mm) duly painted with 2 coats of good quality aluminium paint.	10	Each
9.4	Supplying and making end termination with brass compression gland and aluminium lugs for 2 x 6 sq.mm (19 mm) PVC insulated and PVC sheathed /XLPE aluminium conductor cable of 1:1 KV grade as required.	70	Metre
9.5	Supplying and laying of 1 no. 2 x 10 sq.mm (19 mm) PVC insulated and PVC sheathed/XLPE power cables (heavy duty) aluminium conductor, steel armoured cable of 1.1 KV grade as per IS:1554 (Part I) as required complete in following manners.	150	Metre
9.6	Providing and fixing 6 SWG of wire on surface or in recess for loop earthing along with the existing surface/recessed conduit/ submain wiring/ cable etc. as required.	150	Metre