

**BILL OF QUANTITY FOR CONSTRUCTION OF CEMENT CONCRETE PAVEMENT & TABLE TOP  
PADESTRIAN CROSSING NEAR BRT BUS PICK UP POINT AT RAILWAY STATION RAIPUR**

**NOTES TO BILL OF QUANTITIES**

- A All drawings to be studied carefully before quoting rates  
 B All works shall be executed as per relevant specifications/codes and to the best of the Engineering practices  
 Rates shall be inclusive of all kind of material, equipment, labour, tubler, H frame scaffolding across props, adjustable across spans, MS shuttering sheet of good quality sheet to be free from bends, rusting, broken edges, etc and shall be well maintained, adjustable stirrups, heads, hardware, adhesives, waterproofing compounds structural grade silicone sealants of Dow Corning wacker or equivalent etc.  
 C  
 D Rates shall be includes of electricity and water

Sl. No.	Description of Item	Unit	Quantity	Rate	Amount	Remarks
1	Scarifying existing bituminous surface to a depth of 50 mm (Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material with in all lifts and lead up to 1000 meters.)	SQM	644			
	(Rate in Words					)Only
2	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meters, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.					
2.1	Bituminous courses	Cum.	64.53			
	(Rate in Words					)Only
2.2	Granular courses	Cum.	107.05			
	(Rate in Words					)Only
	<b>Granular Sub-base as per Table:- 400-II</b>					
3	Construction of granular sub-base by providing close graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401					
3.1	Plant mix method					
	for grading- IV Material	cum	57.43			
	(Rate in Words					)Only
4	Dry Lean Cement Concrete Sub- base (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 table 600-1, 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, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	cum	42.53			
	(Rate in Words					)Only
5	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing).	cum	279.00			
	(Rate in Words					)Only
6	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, tamping and sweeping etc. complete of minimum compressive strength of 300 kg/sq.cm					
6.1	Plain precast interlock concrete blocks 60MM	sqm	354.90			
	(Rate in Words					)Only
	<b>Tac tile</b>					
7	Providing and fixing approved quality Durato make vitrified porcelin body textured warning (tactile) floor tiles of size 300 x 300 x 10mm laid over bedding mortar of 50mm thick in 1:5 ratio.(1 cement : 5 sand) of required size and pattern as per drawings and details. The joints shall be well jointed using grey cement slurry mixed with pigments to match the shade of tile including rubbing and cleaning of tiles with water or oxalic acid (if directed). The rate shall be inclusive of tools, tackles etc complete at all levels and laid to desired slopes and levels. The rates shall include for applying of Zycoseal or any other weatherproof transparent coating of approved make on flooring surfaces.					
7.1	Tac Dots	sqm	1.80			
	(Rate in Words					)Only
7.2	Tac liners	sqm	28.50			
	(Rate in Words					)Only
	<b>Road Markers/Road Stud</b>					
8	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work (Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control )					
	Over 10 cm in width	Sq M	75.00			
	(Rate in Words					)Only

9	Road Markers/Road Stud with Lens Reflector (Providing and fixing of road stud 100x 100 mm, die cast in aluminum, resistant to corrosive effect of salt and grit, fitted with lens reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BIS:873, part-IV:1973)	No	40.00				
(Rate in Words							)Only
<b>Earthwork</b>							
10	Disposal of unused excavated / dismantled material lead upto 10 Km	cum	174.58				
(Rate in Words							)Only
<b>Formwork</b>							
11	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:						
11.1	Foundations, footings, base of columns and plinth beam in any shape and size.	sqm	25.80				
(Rate in Words							)Only
<b>Cement concrete (Plain and RCC)</b>							
12	Providing and laying design mix plain cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto floor five level excluding cost of form work.						
12.1	M-20 (using minimum cement 390 kg/cum concrete)	cum	143.32				
(Rate in Words							)Only
<b>Reinforcement</b>							
13	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:						
13.1	. Thermo-Mechanically treated bars	kg	391.60				
(Rate in Words							)Only
<b>Brick work</b>							
17	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth and super structure						
17.1	Cement Mortar 1:4 (1 Cement : 4 Coarse Sand)	cum	8.94				
(Rate in Words							)Only
<b>S S Work</b>							
18	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 excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	117.59				
(Rate in Words							)Only
<b>Plaster</b>							
19	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:						
19.1	.Cement Mortar 1:4 (1 Cement : 4 fine Sand)- (single coat finish and single coat rough plaster)	sqm	16.51				
(Rate in Words							)Only
20	<b>Painting</b>						
	Distempering Painting and finishing	sqm	16.51				
(Rate in Words							)Only
<b>Dismantling And Demolishing</b>							
21	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	cum	3.00				
(Rate in Words							)Only
22	Construction of brick masonry pulling chamber 600 mm x 600 mm inside clear size and depth upto 0.60 meter with 350 mm thick masonry in cement mortar proportion 1:5.cement finish cement plaster in CM proportion of 15 mm thickness from inside with 150 mm thick PCC at bottom with top slab minimum 200 mm thickness in M20 grade with reinforcement. The rate shall be inclusive of providing and fixing frame and 600 mm dia cover of FRC for the Heavy Duty. Rate also inclusive of excavation and back filling & clearing the site by removing debris & Shifting of the debris & making site good As per the Instruction of the Engineer Incharge complete in all respect.	no	6				
(Rate in Words							)Only
23	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 :						
	300mm dia	Mtr	90				
(Rate in Words							)Only
<b>Grand Total</b>							
<b>Rate in Words</b>							<b>-)Only</b>
<b>Signature of Contractor</b>							