

BILL OF QUANTITY FOR CEMENT CONCRETE PAVEMENT AND M.S.GRILL PARTITION NEAR BRT BUS SHELTERS WITHIN NAYA 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
- C 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.
- D Rates shall be includes of electricity and water

Sl. No.	Description of Item	Unit	Quantity	Rate Unit (Rs)	Amount	Remarks
	Concrete Works					
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	189.00			
	(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.	104.99			
	(Rate in Words)Only
2.2	Granular courses	Cum.	151.82			
	(Rate in Words)Only
3	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	28.35			
	(Rate in Words)Only
4	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	302.40			
	(Rate in Words)Only
5	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
6	Disposal of unused excavated / dismantled material lead upto 5 Km	cum	256.81			
	(Rate in Words)Only
7	Form work					
	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					

	Columns, Pillars, Piers and likes- rectangular or square in shape	sqm	30.72				
	(Rate in Words)Only
8	Cement concrete (Plain and RCC)						
8.1	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.						
	M-20 (using minimum cement 390 kg/cum concrete)	cum	15.80				
	(Rate in Words)Only
8.2	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:						
	. Thermo-Mechanically treated bars	kg	246.00				
	(Rate in Words)Only
9	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer and then spraying two coats of Mettalic / Auto paint of Asian, MRF, Duco, Dulux make using a compressor machine of approved shade in even and smooth finish. The rates shall be inclusive of all Materials, labour, scaffolding, providing and applying paint, factory bending of MS sections as per design profiles and erecting the same on site using all kinds of necessary hoisting machinery.						
	b)In gratings, frames, guard bar, ladder, railings (polished bars), brackets, gates (polished bars) and similar works.	kg	18026.11				
	(Rate in Words)Only
10	Providing & fixing in position exposed R.C.C pre cast bollard in M30 desired locations as per designs of the consultants. The bollards shall be cast in rubber lined M.S moulds. The contractor shall take approvals for the moulds from the engineer in charge prior to casting. The bollards shall be placed on 150 mm thick PCC bedding in 1:4:8 shown as per designs. The rates shall be inclusive of all materials like M30 concrete for bollards, PCC, excavation, removal of debries from the site and making the site clean. after work, marking of bollards in positiones as per the consultant's design drawings providing for and fixing 3M dimond grade retro refelectors using adhesive tapes as per the instructions of the engineer in charge, labour for all works, erection and erection equipments all tools, tackels, moulds and all lead, lifts and transportation. The works shall be carried out to the complete satisfaction of the engineer in charge.	nos	126				
	(Rate in Words)Only
11	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	150.00				
	(Rate in Words)Only
12	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	80.00				
	(Rate in Words)Only
Grand Total							
Rate in Words						-)Or	
Signature of Contractor							