

BILL OF QUANTITIES FOR ROAD WORKS

SL NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT IN INR
1	Supplying & filling with excavated earth earth brought from outside	3,600.00	Cum		
2	Excavation for roadway in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 metres (average lead 50 metres), including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections.	2,025.00	Cum		
3	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	4,500.00	Sqm		
4	Supplying, Stacking & spreading moorum 500mm thick back filling for pitching including packing with smaller stones and consolidation with power roller including spreading , watering and consolidation of binding material etc.	4,500.00	Sqm		

SL NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT IN INR
5	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-I (size range 75 mm to 0.075 mm) having CBR Value-30	800.00	Cum		
6	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.-2 LAYERS	800.00	Cum		

SL NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT IN INR
7	<p>Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder,transported to site by tippers,laid over a previously prepared surface with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specificaton and density, complete as per specifications and directions of Engg-in Charge. 50 to 100mm average compacted thickness with bitumen of grade VG-30@3.5% (percentage by weight of total mix) prepared in Drum type Hot Mix Plant of 60-90 TPH capacity</p>	300.00	Cum		
8	<p>Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete.</p>	4,500.00	Sqmt		

SL NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT IN INR
9	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 CM 1:3, including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge)(Length of finished kerb edging shall be measured for payment)(Precast CC kerb stone shall be approved by Engineer in charge)	560.00	Rmt		
10	Providing and applying thermoplastic reflective paint of any colour or compound for line marking, 3 mm thick of pigment as per MORTH specification no. 803.4 (rate of application of compound @ 8 kg/Sqm) etc complete. (Approved by Engineer in Charge)	83.00	Sqmt		
	TOTAL COST				

BILL OF QUANTITIES FOR STORM WATER DRAIN WORK

SL No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT IN INR
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 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 levelled and neatly dressed.				
	All kinds of soil	3190	cum		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each eposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	2166	cum		
3	Loading and unloading of excavated earth. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip) upto a lead upto 10 kms	1025	cum		
4	Supplying and filling in plinth under floors, including watering, ramming, consolidating and dressing complete.Moorum/Hard Copra	350	Cum		

SL No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT IN INR
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works upto Plinth Level				
5a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size	134	cum		
5b	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)-Coping Work	87	cum		

SL No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT IN INR
6	<p>Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of RMC from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of 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.</p> <p>(Note: Cement content considered in this item is @ 330 kg/cum. Excess/Less cement used as per design mix is payable/recoverable separately).</p>				
	All works upto plinth level	552.00	cum		
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				

SL No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT IN INR
	Thermo-Mechanically Treated bars	46920	kg		
8	Centering and shuttering including strutting, propping etc. and removal of form work for :Foundations, footings, bases for columns	4176	Sqmt		
9	15 mm cement plaster finished with a floating coat of neat cement of mix:				
	1:3 (1 cement : 3 coarse sand)	508	sqm		
10	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.-Hot Galvanised Welding material	32964	kg		
12	Providing 50 mm dia CPVC pipe for perforation in Drain Cover	150.00	RM		
13	Providing and laying non-pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 find sand) including testing of joints ect complete:				
	250 mm dia RCC Pipe	160.00	RM		

SL No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT IN INR
	TOTAL COST				₹ 4.00

(III) INSTALLATION OF ARTIFICIAL TURF

SL No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT IN INR
1	Artificial Football Pitch (Size 110mx 73.25m)				
a	Supplying & filling with excavated earth brought from outside	11480	cum		
b	Design, supply and lay a FIFA certified (Quality) artificial pitch complete with all necessary excavation, suitable sub-base, irrigation system and sub-soil drainage complete with backing layer, infill materials and white lines	7488	Sqm		
	NOTE:				
i	Bidders to specify the type and thickness of sub-base and any sub-soil drainage included in their pricing				
ii	Bidders are to submit the method of installation and their product specifications with regards to the type and length of grass, the backing layer and infill materials				
iii	Allow for the cost to obtain FIFA certification for the installed artificial turf				
	TOTAL CARRIED TO SUMMARY OF COST				