

Renovation of Punnamada Parking Area and Premises at Alappuzha District

Detailed Estimate

(Dsr year: 2016, Cost Index Applied for this estimate is 48.71%)

SI No	Description	No	L	B	D	CF	Quantity	Remark	
1 PARKING AREA									
1	16.82 Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.								
	KERB STONE	1	300.000				300.000		
	Total Quantity							300.000 metre	
	Total Deducted Quantity							0.000 metre	
	Net Total Quantity							300.000 metre	
	Say 300.000 metre @ Rs 23.87 / metre							Rs 7161.00	
2	16.83 Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.								
	FRONT PARKING	1	32.000	40.000			1280.000		
	SIDE OF OFFICE	1	15.000	23.000			345.000		
	FRONT OF PORCH	1	12.000	5.500			66.000		
	SHOP FRONT	1	13.000	18.000			234.000		
	SIDE BUILDING	1	13.000	14.000			182.000		
	OPPOSITE SIDE PARKING	1	40.000	40.000			1600.000		
	TOILET & ALL OTHER AREA	1	30.000	30.000			900.000		
	Total Quantity							4607.000 sqm	
	Total Deducted Quantity							0.000 sqm	
	Net Total Quantity							4607.000 sqm	
	Say 4607.000 sqm @ Rs 80.23 / sqm							Rs 369619.61	
3	4.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4)1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm								

	nominal size)							
	KERB	1	200.000	0.200	0.300		12.000	
	Total Quantity						12.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						12.000 cum	
	Say 12.000 cum @ Rs 8016.14 / cum						Rs 96193.68	
4	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)							
	JETTY SIDE	12	8.000	0.500	0.600		28.800	
	Total Quantity						28.800 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						28.800 cum	
	Say 28.800 cum @ Rs 5897.62 / cum						Rs 169851.46	
5	51.2.3 Filling with Quarry Muck Filling up low lying and water logged areas with local material/ quarry muck, spreading in layers, leveling the top at site and consolidation by ramming, etc complete for improving the CBR value of subgrade							
	FRONT PARKING	1	32.000	40.000	0.500		640.000	
	SIDE OF OFFICE	1	15.000	23.000	0.500		172.500	
	FRONT OF PORCH	1	12.000	5.500	0.500		33.000	
	SHOP FRONT	1	13.000	18.000	0.500		117.000	
	SIDE BUILDING	1	13.000	14.000	0.500		91.000	
	OPPOSITE SIDE PARKING	1	40.000	40.000	0.500		800.000	
	TOILET & ALL OTHER AREA	1	30.000	30.000	0.500		450.000	
	Total Quantity						2303.500 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						2303.500 cum	
	Say 2303.500 cum @ Rs 893.69 / cum						Rs 2058614.92	
6	16.78.1 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							
	FRONT PARKING	1	32.000	40.000	0.200		256.000	
	SIDE OF OFFICE	1	15.000	23.000	0.200		69.000	
	FRONT OF PORCH	1	12.000	5.500	0.200		13.201	
	SHOP FRONT	1	13.000	18.000	0.200		46.801	
	SIDE BUILDING	1	13.000	14.000	0.200		36.400	
	OPPOSITE SIDE PARKING	1	40.000	40.000	0.200		320.000	
	TOILET & ALL OTHER AREA	1	30.000	30.000	0.200		180.000	
	Total Quantity						921.402 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						921.402 cum	
	Say 921.402 cum @ Rs 3107.59 / cum						Rs 2863339.64	
7	od266554/2019_2020 "Using Departmental" material and laying 80 mm thick factory made Cement Concrete interlocking paver blocks of M30 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 6 mm stone aggregate, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-Charge.							
	Using 70% of departmental block quantity arrived from dismantling(4607*70/100)	1	3224.900				3224.900	
	Total Quantity						3224.900 per sqm	
	Total Deducted Quantity						0.000 per sqm	
	Net Total Quantity						3224.900 per sqm	
	Say 3224.900 per sqm @ Rs 212.47 / per sqm						Rs 685194.50	
8	od311089/2020_2021 Providing and laying 80 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 6mm stone aggregate, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.							

	Using 30% of new block - Quantity arrived from dismantling (4607*30/100)	1	4607*0.3					1382.100	
Total Quantity								1382.100 sqm	
Total Deducted Quantity								0.000 sqm	
Net Total Quantity								1382.100 sqm	
Say 1382.100 sqm @ Rs 930.15 / sqm								Rs 1285560.32	
Sl No	Description	No	L	B	D	CF	Quantity	Remark	
2 BUILDING									
1	11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm.								
	ROOMS	3	3.000	5.000			45.000		
Total Quantity								45.000 sqm	
Total Deducted Quantity								0.000 sqm	
Net Total Quantity								45.000 sqm	
Say 45.000 sqm @ Rs 1664.66 / sqm								Rs 74909.70	
2	51.19.ST3 Supplying and installing ready made PVC Septic tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (Provision for CC/RCC/Sand/06mm aggregate for the preparation of bed shall be paid separately) 3. 25 to below 35 flush capacity								
		2					2.000		
Total Quantity								2.000 each	
Total Deducted Quantity								0.000 each	
Net Total Quantity								2.000 each	
Say 2.000 each @ Rs 24379.99 / each								Rs 48759.98	
3	od311601/2020_2021 Providing and fixing superior quality White Vitreous China Wash basin size 630x450mm with a pair of 15 mm C. P. brass pillar taps with C.I. brackets, 32 mm waste pipe of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required ect. complete: JAQUAR ARS-WHT-39803 or Equivalent								
		2					2.000		
Total Quantity								2.000 each	

							Total Deducted Quantity	0.000 each	
							Net Total Quantity	2.000 each	
							Say 2.000 each @ Rs 9340.00 / each	Rs 18680.00	
4	50.6.1.2 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 (1 cement: 6 coarse sand) etc complete.								
	FOR 3 BUILDINGS	3	12.000	0.200	0.750		5.400		
							Total Quantity	5.400 cum	
							Total Deducted Quantity	0.000 cum	
							Net Total Quantity	5.400 cum	
							Say 5.400 cum @ Rs 5839.01 / cum	Rs 31530.65	
5	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)								
	FOR SHOPS	2	12.000	3.000	0.150		10.800		
							Total Quantity	10.800 cum	
							Total Deducted Quantity	0.000 cum	
							Net Total Quantity	10.800 cum	
							Say 10.800 cum @ Rs 8152.21 / cum	Rs 88043.87	
Sl No	Description	No	L	B	D	CF	Quantity	Remark	
3 SMALL REGULATOR									
1	5.2.2 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. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)								
	FOUNDATION	1	1.500	0.750	0.300		0.338		
	Pillars	2	0.300	0.300	0.750		0.135		
	Deduction for grooves	2	0.050	0.050	0.750		-0.003		
							Total Quantity	0.473 cum	
							Total Deducted Quantity	-0.003 cum	
							Net Total Quantity	0.470 cum	
							Say 0.470 cum @ Rs 10626.52 / cum	Rs 4994.46	
2	2.8.1								

	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil							
		1	1.500	0.750	0.300		0.338	
	Total Quantity						0.338 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.338 cum	
	Say 0.338 cum @ Rs 247.45 / cum						Rs 83.64	
3	4.3.3 Centering and shuttering including strutting, propping etc. and removal of form work for:Columns, piers, abutments, pillars, posts and struts							
	columns	2*4	0.300		0.750		1.800	
	Total Quantity						1.800 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1.800 sqm	
	Say 1.800 sqm @ Rs 695.74 / sqm						Rs 1252.33	
4	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
		1	0.470			120.0	56.400	
	Total Quantity						56.400 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						56.400 kilogram	
	Say 56.400 kilogram @ Rs 84.17 / kilogram						Rs 4747.19	
5	60.8 Shutter for check dams- Supplying and providing Thambagam wood shutter planks 5cm thick including cost of materials and labour charges etc complete							
	Shutter plank	1	0.750	0.600	0.050	100.0	2.250	
	Total Quantity						2.250 10 cud m	
	Total Deducted Quantity						0.000 10 cud m	
	Net Total Quantity						2.250 10 cud m	
	Say 2.250 10 cud m @ Rs 886.63 / 10 cud m						Rs 1994.92	
SI No	Description	No	L	B	D	CF	Quantity	Remark
4 LANDSCAPING								

1	od311283/2020_2021 Supplying and planting of approved Hedge Plants at required spacing as shown in drawing. Rate shall include cost of plants soil work,manure and fertilizers used in top dressing, chemical and machanical pest control, staking and maintaining the planting till it is handed over from the date of planting labour charges, pest control operating etc. (5)Tecoma capensis							
		45					45.000	
	Total Quantity						45.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						45.000 each	
	Say 45.000 each @ Rs 218.19 / each						Rs 9818.55	
2	od311284/2020_2021 Supplying and planting of approved Hedge Plants at required spacing as shown in drawing. Rate shall include cost of plants soil work,manure and fertilizers used in top dressing, chemical and machanical pest control, staking and maintaining the planting till it is handed over from the date of planting labour charges, pest control operating etc. (4)Ixora noragrant							
		45					45.000	
	Total Quantity						45.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						45.000 each	
	Say 45.000 each @ Rs 218.19 / each						Rs 9818.55	
3	od311285/2020_2021 Supplying and planting of approved shrubs at required spacing as shown in drawing. Rate shall include cost of plants soil work,manure and fertilizers used in top dressing, chemical and machanical pest control, staking and maintaining the planting till it is handed over from the date of planting labour charges, pest control operating etc. (13)Tabernaemontana green							
		45					45.000	
	Total Quantity						45.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						45.000 each	
	Say 45.000 each @ Rs 221.67 / each						Rs 9975.15	
4	od311286/2020_2021 Supplying and planting of approved shrubs at required spacing as shown in drawing. Rate shall include cost of plants soil work,manure and fertilizers used in top dressing, chemical and machanical pest control, staking and maintaining the planting till it is handed over from the date of planting labour charges, pest control operating etc. (9)Oleander tall							
		45					45.000	
	Total Quantity						45.000 each	

							Total Deducted Quantity	0.000 each
							Net Total Quantity	45.000 each
							Say 45.000 each @ Rs 215.86 / each	Rs 9713.70
5	od311287/2020_2021 Supplying and planting of approved shrubs at required spacing as shown in drawing. Rate shall include cost of plants soil work,manure and fertilizers used in top dressing, chemical and machanical pest control, staking and maintaining the planting till it is handed over from the date of planting labour charges, pest control operating etc. (7)Gardenia							
		45					45.000	
							Total Quantity	45.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	45.000 each
							Say 45.000 each @ Rs 215.86 / each	Rs 9713.70
6	od311291/2020_2021 Supplying and planting of approved trees species of a height 2.0m to 2.5m, at the specified location as shown in the drawing.Rate shall include Cost of plants, soil work inclusive of red soil, sand and manure mix staking and planting of trees sapling, replacement of dead trees and for providing a pit size 75 x 75 x 75 cm and maintainance till the completion of project work.(1).Plumeria Alba							
		25					25.000	
							Total Quantity	25.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	25.000 each
							Say 25.000 each @ Rs 2997.66 / each	Rs 74941.50
7	od311388/2020_2021 Supplying and laying the buffalo over the levelled and prepared surface . The rate shall include the cost of grass mat input manure and fertilisers used periodically for top dressing ,chemical and mechanical pest control and all post planting maintenance procedure complete till the complection of project 1) Buffalo grass							
		1	10.000	10.000			100.000	
							Total Quantity	100.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	100.000 sqm
							Say 100.000 sqm @ Rs 138.89 / sqm	Rs 13889.00
SI No	Description	No	L	B	D	CF	Quantity	Remark
5 Plumbing								

1	50.18.7.4.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm ² - Internal work - Exposed on wall	1	50.000				50.000	
		Total Quantity					50.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					50.000 metre	
		Say 50.000 metre @ Rs 253.95 / metre					Rs 12697.50	
2	50.18.9.9.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm ²	1	35.000				35.000	
		Total Quantity					35.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					35.000 metre	
		Say 35.000 metre @ Rs 451.80 / metre					Rs 15813.00	
3	50.18.9.13.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 25 mm dia 10 Kgf/cm ² - External work - Exposed on wall	1	35.000				35.000	
		Total Quantity					35.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					35.000 metre	
		Say 35.000 metre @ Rs 219.73 / metre					Rs 7690.55	
4	18.51.1 Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.15 mm nominal bore	2					2.000	
		Total Quantity					2.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					2.000 each	
		Say 2.000 each @ Rs 732.47 / each					Rs 1464.94	
5	18.53.1 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality							

conforming to IS: 893115 mm nominal bore								
	For Washbasin	1					1.000	
Total Quantity							1.000 each	
Total Deducted Quantity							0.000 each	
Net Total Quantity							1.000 each	
Say 1.000 each @ Rs 707.41 / each							Rs 707.41	
SI No	Description	No	L	B	D	CF	Quantity	Remark
6 GST @ 12%								
Lump-Sum Total							Rs 958413.05	
SI No	Description	No	L	B	D	CF	Quantity	Remark
7 Centage @ 8%								
Lump-Sum Total							Rs 638942.03	
SI No	Description	No	L	B	D	CF	Quantity	Remark
8 GST @ 18% on centage								
Lump-Sum Total							Rs 115009.57	
Provision for GST payments (in %) @							0.0%	
Amount reserved for GST payments							0.00	
Total							9699140.00	
Lumpsum for round off							860.00	
TOTAL Rs 9700000.00								
Rounded Total Rs 97,00,000								
Rupees Ninety Seven Lakh Only								

(Cost Index Applied for this estimate is 48.71%)