

MUNICIPAL CORPORATION -RAJNANDGAON

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rct rajhans
CONSULTANTS AND TECHNOCRATS Pvt. Ltd.
MULTIDISCIPLINARY CONSULTANCY

STAGE - I ESTIMATE

CONSTRUCTION OF COMERICAL COMPLEX , RAJNANDGAON

S.no.	Item	No.	Area	Unit	Rate	Amount
A	Civil Work					
1	Ground Floor					₹ 58,44,044.45
2	First Floor					₹ 48,31,004.32
					Total	₹ 1,06,75,048.77
3	Electrical Work		10.0%	9%		₹ 10,67,504.88
4	Sanitary		9.0%	5%		₹ 9,60,754.39
					Total A	₹ 1,27,03,308.04
5	Parking		160	Sqm	1156.97	₹ 1,85,114.67
6	Boring					₹ 1,76,010.00
7	Water Supply					₹ 1,62,808.00
8	Septic Tank					₹ 1,09,212.95
9	Electrical Pole					₹ 4,77,823.80
					Total B	₹ 11,10,969.42
					Total (A+B)	₹ 1,38,14,277.45
10	Consultancy & Contingencies	2.50%				₹ 3,45,356.94
					Grand Total	₹ 1,41,59,634.39
					Say in Lacs	141.60

No. 571 Date 30.01.26
Technical Sanction of Nagar Nigam
Patika / Panchayat
Here by Authorized for the Construction
& Repairing of Commercial Complex
In Ward No.
for Rs. (In words) Rs.




अधीक्षण अभियंता
नगरीय प्रशासन एवं विकास
दुर्ग संभाग, दुर्ग (छ.ग.)

Executive Engineer
Municipal Corporation
Rajnandgaon (C G)

Abstract
Assistant Engineer
Municipal Corporation
Rajnandgaon (C G)

Sub Engineer
Municipal Corporation
Rajnandgaon (C. G.)

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MUNICIPAL CORPORATION -RAJNANDGAON										
		www.rct.co.in, email: rctpvtltd@gmail.com								
		 CONSULTANTS AND TECHNOCRATS Pvt. Ltd.								
		MULTIDISCIPLINARY CONSULTANCY								
ESTIMATE OF GROUND FLOOR										
CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON										
Building SOR wef. 2015										
Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil								
		FOOTING								
		F1	19	1.80	2.00	2.20	150.48			
		F2	6	2.00	2.40	2.40	69.12			
		F3	14	2.10	2.70	2.40	190.51			
		X-X								
			2	13.00	0.30	0.20	1.56			
			8	6.60	0.30	0.20	3.17			
			1	20.30	0.30	0.20	1.22			
			1	4.30	0.30	0.20	0.26			
			1	8.40	0.30	0.20	0.50			
			1	1.80	0.30	0.20	0.11			
		Y-Y								
			8	4.00	0.30	0.20	1.92			
			4	15.00	0.30	0.20	3.60			
			3	7.80	0.30	0.20	1.40			
			1	3.10	0.30	0.20	0.19			
		Entry Steps	3	27.00	0.30	0.20	4.86			
						Total	428.90	cum	185.0	79346.5
	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	1.6.1	All types of soil								
		F1	19	1.80	2.00	0.70	47.88			
		F2	6	2.00	2.40	0.90	25.92			
		F3	14	2.10	2.70	0.90	71.44			
						Total	145.24	cum	26.5	3848.86
	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		Footing								
		F1	19	1.80	2.00	0.10	6.84			
		F2	6	2.00	2.40	0.10	2.88			
		F3	14	2.10	2.70	0.10	7.94			
		X-X								
			2	13.00	0.30	0.10	0.78			
			8	6.60	0.30	0.10	1.58			
			1	20.30	0.30	0.10	0.61			
			1	4.30	0.30	0.10	0.13			
			1	8.40	0.30	0.10	0.25			
			1	1.80	0.30	0.10	0.05			
		Y-Y								
			8	4.00	0.30	0.10	0.96			
			4	15.00	0.30	0.10	1.80			
			3	7.80	0.30	0.10	0.70			
			1	3.10	0.30	0.10	0.09			
		Entry Steps	3	27.00	0.30	0.10	2.43			

Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	Floor Area								
	Ground floor Area	1	433.62	sqmt	0.13	54.20			
					Total	81.24	cum	2970.0	241290.225
3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	Footing								
	F1	19	1.60	1.80	0.40	21.89			
	F2	6	1.80	2.20	0.50	11.88			
	F3	14	1.90	2.50	0.60	39.90			
	Column upto Ground Lvl								
	C1	19	0.30	0.45	1.70	4.36			
	C2	6	0.30	0.50	1.80	1.62			
	C3	14	0.30	0.60	1.70	4.28			
	Column Ground Lvl to Plinth top								
	C1	19	0.30	0.45	0.45	1.15			
	C2	6	0.30	0.50	0.45	0.41			
	C3	14	0.30	0.60	0.45	1.13			
	Ground /Plinth Beam								
	X-X								
		2	13.00	0.20	0.40	2.08			
		8	6.60	0.30	0.60	9.50			
		1	20.30	0.30	0.60	3.65			
		1	4.30	0.20	0.45	0.39			
		1	8.40	0.20	0.45	0.76			
		1	1.80	0.20	0.30	0.11			
	Y-Y								
		8	4.00	0.20	0.45	2.88			
		4	15.00	0.20	0.45	5.40			
		3	7.80	0.20	0.45	2.11			
		1	3.10	0.20	0.30	0.19			
					Total	113.69	cum	4163.0	473291.47
3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth								
	RCC Plinth to SLAB								
	C1	19	0.30	0.45	3.300	8.46			
	C2	6	0.30	0.50	3.300	2.97			
	C3	14	0.30	0.60	3.300	8.32			
	Lintel Beam								
	X-X								
		2	13.00	0.20	0.15	0.78			
		8	6.60	0.20	0.15	1.58			
		1	20.30	0.20	0.15	0.61			
		1	4.30	0.20	0.15	0.13			
		1	8.40	0.20	0.15	0.25			
		1	1.80	0.10	0.15	0.03			
	Y-Y								
		8	4.00	0.20	0.15	0.96			
		4	15.00	0.20	0.15	1.80			
		3	7.80	0.20	0.15	0.70			
		1	3.10	0.10	0.15	0.05			
	SLAB & BEAM								
	X-X								
		1	13.00	0.20	0.40	1.04			
		1	13.00	0.20	0.60	1.56			



Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
			6	7.60	0.30	0.60	8.21			
			2	20.30	0.30	0.60	7.31			
			1	4.30	0.20	0.45	0.39			
			1	8.40	0.20	0.45	0.76			
			1	1.80	0.20	0.30	0.11			
		Y-Y								
			8	4.00	0.20	0.45	2.88			
			4	15.00	0.20	0.45	5.40			
			3	7.80	0.20	0.45	2.11			
			1	3.10	0.20	0.30	0.19			
		SLAB	1	433.62	SQM	0.125	54.20			
		Stair								
		Waist slab	2	3.70	1.50	0.15	1.67			
		Landing	1	3.10	1.50	0.15	0.70			
		Steps	11	1.50	0.30	0.15	0.74			
		Entry Steps	3	27.00	0.30	0.15	3.65			
						Total	117.53	cum	4260.5	500740.8255
	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		As excavated earth	-	-	-	-	428.90			
		For Qty	1	428.90	x	25%	107.23			
						Total	107.23	cum	65.0	6969.95
	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		In Footing								
		F1	19	1.80	2.00	1.70	116.28			
		F2	6	2.00	2.40	1.80	51.84			
		F3	14	2.10	2.70	1.70	134.95			
		X-X								
			2	13.00	0.30	0.10	0.78			
			8	6.60	0.30	0.10	1.58			
			1	20.30	0.30	0.10	0.61			
			1	4.30	0.30	0.10	0.13			
			1	8.40	0.30	0.10	0.25			
			1	1.80	0.30	0.10	0.05			
		Y-Y								
			8	4.00	0.30	0.10	0.96			
			4	15.00	0.30	0.10	1.80			
			3	7.80	0.30	0.10	0.70			
			1	3.10	0.30	0.10	0.09			
		Ground floor Area	1	433.62	sqmt	0.35	151.77			
						Total	461.79	cum	371.0	171324.09
	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Footing								
		F1	19	6.80	-	0.40	51.68			
		F2	6	8.00	-	0.50	24.00			
		F3	14	8.80	-	0.60	73.92			
		Column upto Ground Lvl								
		C1	19	1.50	-	1.70	48.45			
		C2	6	1.60	-	1.80	17.28			

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
		C3	14	1.80	-	1.70	42.84			
		Column Ground Lvl to Plinth top								
		C1	19	1.50	-	0.45	12.83			
		C2	6	1.60	-	0.45	4.32			
		C3	14	1.80	-	0.45	11.34			
		Ground /Plinth Beam								
		X-X								
			4	13.00		0.40	20.80			
			16	6.60		0.60	63.36			
			2	20.30		0.60	24.36			
			2	4.30		0.45	3.87			
			2	8.40		0.45	7.56			
			2	1.80		0.30	1.08			
		Y-Y								
			16	4.00		0.45	28.80			
			8	15.00		0.45	54.00			
			6	7.80		0.45	21.06			
			2	3.10		0.30	1.86			
						Total	513.41	sqm	139.0	71363.99
2.1.5		Columns, Pillars, Piers and likes- rectangular or square in shape								
		RCC Plinth to SLAB								
		C1	19	1.50		3.30	94.05			
		C2	6	1.60		3.30	31.68			
		C3	14	1.80		3.30	83.16			
						Total	208.89	sqm	297.0	62040.33
2.1.8		Beams, lintels, cantilevers & walls								
		Lintel Beam								
		X-X								
			4	13.00		0.15	7.80			
			16	6.60		0.15	15.84			
			2	20.30		0.15	6.09			
			2	4.30		0.15	1.29			
			2	8.40		0.15	2.52			
			2	1.80		0.15	0.54			
		Y-Y								
			16	4.00		0.15	9.60			
			8	15.00		0.15	18.00			
			6	7.80		0.15	7.02			
			2	3.10		0.15	0.93			
		SLAB & BEAM								
		X-X								
			2	13.00		0.40	10.40			
			2	13.00		0.60	15.60			
			12	7.60		0.60	54.72			
			4	20.30		0.60	48.72			
			2	4.30		0.45	3.87			
			2	8.40		0.45	7.56			
			2	1.80		0.30	1.08			
		Y-Y								
			16	4.00		0.45	28.80			
			8	15.00		0.45	54.00			
			6	7.80		0.45	21.06			
			2	3.10		0.30	1.86			
						Total	317.30	sqm	202.0	64094.6
2.1.7		Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		SLAB	1	433.62	sqmt		433.62			
						Total	433.62	sqm	202.0	87591.24
2.1.4		Edge of slab, breaks in floor and walls upto 200mm	1	141.8			141.80	Mtr	34.0	4821.2
2.1.15		Stair cases of all types excluding spiral and folded plate type, including risers and landings								
		Waist slab	2	3.70	1.80		13.32			
		Landing	1	3.40	1.65		5.61			
		Steps	22	1.50		0.45	14.85			

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
		Entry Steps	6.00	27.00		0.45	72.90			
						Total	106.68	sqm	230.0	24536.4
	3.12.1	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 in foundation and plinth all complete:								
		Thermo-Mechanically treated bars FE 500D	1	117.53	x	120.0	14103.7			
		@ 120kg per cum of concrete				Total	14103.7	kg	54.5	768652.74
	7.5.4	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
		Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Below Plinth								
		X-X								
			2	13.00	0.20	0.10	0.52			
			8	6.60	0.20	0.10	1.06			
			1	20.30	0.20	0.10	0.41			
			1	4.30	0.20	0.10	0.09			
			1	8.40	0.20	0.10	0.17			
			1	1.80	0.20	0.10	0.04			
		Y-Y								
			8	4.00	0.20	0.10	0.64			
			4	15.00	0.20	0.10	1.20			
			3	7.80	0.20	0.10	0.47			
			1	3.10	0.20	0.10	0.06			
						Total	4.66	cum	3263.0	15205.58
	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		X-X								
			2	13.00	0.20	3.30	17.16			
			8	6.60	0.20	3.30	34.85			
			1	20.30	0.20	3.30	13.40			
			1	4.30	0.20	3.30	2.84			
			1	8.40	0.20	3.30	5.54			
			1	1.80	0.20	3.30	1.19			
		Y-Y								
			8	4.00	0.20	3.30	21.12			
			4	15.00	0.20	3.30	39.60			
			3	7.80	0.20	3.30	15.44			
			1	3.10	0.20	3.30	2.05			
		deduction								
		Rolling shutter	6	3.00	0.20	2.70	-9.72			
		Rolling shutter	3	3.70	0.20	2.70	-5.99			
		Rolling shutter	3	4.00	0.20	2.70	-6.48			
		Rolling shutter	2	3.90	0.20	2.70	-4.21			
		D1	2	0.75	0.20	2.10	-0.63			
						Total	126.15	cum	3384.0	426891.6
	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.								
		X-X								
			2	13.00	0.20	0.05	0.26			
			8	6.60	0.20	1.05	11.09			

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Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
			1	20.30	0.20	2.05	8.32			
			1	4.30	0.20	3.05	2.62			
			1	8.40	0.20	4.05	6.80			
			1	1.80	0.20	5.05	1.82			
		Y-Y								
			8	4.00	0.20	0.05	0.32			
			4	15.00	0.20	1.05	12.60			
			3	7.80	0.20	2.05	9.59			
			1	3.10	0.20	3.05	1.89			
						Total	55.31	cum	4237.0	234348.47
	3.15	Applying a coat of hot bitumen 30/40 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.								
		X-X								
			2	13.00	0.20	-	5.20			
			8	6.60	0.20	-	10.56			
			1	20.30	0.20	-	4.06			
			1	4.30	0.20	-	0.86			
			1	8.40	0.20	-	1.68			
			1	1.80	0.20	-	0.36			
		Y-Y								
			8	4.00	0.20	-	6.40			
			4	15.00	0.20	-	12.00			
			3	7.80	0.20	-	4.68			
			1	3.10	0.20	-	0.62			
						Total	46.42	Sqm	93.50	4340.27
	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.1	In Cement mortar 1:3 (1 cement : 3 fine sand)								
							433.62			
							433.62	Sqm	93.00	40326.66
	11.2	12mm thick cement plaster of mix:								
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
		X-X								
			4	13.00		3.30	171.60			
			16	6.60		3.30	348.48			
			2	20.30		3.30	133.98			
			2	4.30		3.30	28.38			
			2	8.40		3.30	55.44			
			2	1.80		3.30	11.88			
		Y-Y								
			16	4.00		3.30	211.20			
			8	15.00		3.30	396.00			
			6	7.80		3.30	154.44			
			2	3.10		3.30	20.46			
		deduction								
		Rolling shutter	12	3.00		2.70	-97.20			
		Rolling shutter	6	3.70		2.70	-59.94			
		Rolling shutter	6	4.00		2.70	-64.80			
		Rolling shutter	4	3.90		2.70	-42.12			
		D1	4	0.75		2.10	-6.30			
						Total	1261.50			
		12mm thick cement plaster 50%					630.75	Sqm	91.50	57713.63
	11.3.4	15mm thick cement plaster on the rough side of single or half brick wall of mix:								
		In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			1	630.75	Sqm		630.75			
						Total	630.75	sqm	107.0	67490.25

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Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	11.9	Extra for providing and mixing water proofing materials in cement plaster work in proportion as recommended by manufacturer								
							630.75	Sqm		
		7 Sqm For 1kg					90.11	Kg		
						Total	90.11	sqm	43.0	3874.61
	9.27	Supplying and fixing rolling shutter of approved makes made of M.S. laths interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull arrangement complete but excluding the cost of top cover and spring.								
	9.27.1	80x1.25mm M.S. Laths								
		Rolling shutter	6	3.00		2.700	48.60			
		Rolling shutter	3	3.70		2.700	29.97			
		Rolling shutter	3	4.00		2.700	32.40			
		Rolling shutter	2	3.90		2.700	21.06			
						Total	132.03	Sqm	1691.0	223262.73
	9.29	Providing and fixing M.S. sheet top cover for rolling shutter								
		9.29.1 1.25mm thick	6	3.00		1.20	21.60			
			3	3.70		2.20	24.42			
			3	4.00		3.20	38.40			
			2	3.90		4.20	32.76			
						Total	117.18	Sqm	540.0	63277.20
	9.30	Providing and fixing ball bearing for rolling shutters	1	28.00			28.00			
						Total	28.00	Each	423.0	11844.00
	12.45	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)								
	12.45.2	Granite stone black								
		Stair								
		Steps	22	1.50		0.45	14.85			
		Landing	1	3.10	1.50		4.65			
		Entry Steps	3	27.00		0.45	36.45			
		Verandah	1	57.08	sqm		57.08			
						Total	113.03	sqm	2646.0	299077.38
	12.13	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.								
	12.13.1	Size 600x600mm								
		Shop	6	3.00	4.00		72.00			
		Shop	3	6.00	3.70		66.60			
		Shop	3	6.00	4.00		72.00			
		Shop	1	3.90	4.50		17.55			
		Shop	3	3.90	7.80		91.26			

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
						Total	319.41			
		Skirting 20%					63.88			
							383.29	sqm	1151.0	441169.092
12.10		Providing and laying rectified ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.								
12.10.1		Size 300x300mm								
		Toilet	1	1.50	1.80	-	2.70			
			1	2.00	3.10		6.20			
						Total	8.90	sqm	858.00	736164.0
12.7		Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.								
12.7.1		Size upto 200x300mm								
		Toilet								
		wall	2	1.50		2.10	6.30			
			2	1.80		2.10	7.56			
			2	2.00		2.10	8.40			
			2	3.10		2.10	13.02			
		Deduct	-2	0.075		2.10	-0.32			
						Total	34.96	sqm	587.00	344569.0
8.148		Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance ± 1 mm) with wall thickness 2.0mm ± 0.2 mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm ± 0.1 mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge								
8.148.1		Extruded section Profile size 48x40 mm.								
		D1	2	5.70			11.40			
						Total	11.40	m	191.00	2177.4


Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	8.150	Providing and fixing factory made 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm \pm 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification.								
		D1	2	0.75		2.10	3.15			
						Total	3.15	Sqm	2583.00	8136.5
	14.6	White washing with whitening to give an even shade.								
	14.6.1	On new work (Three or more coats)								
		from item no	0				433.62			
		from item no	0				630.75			
		from item no	0				630.75			
						Total	1695.12	Sqm	9.0	15256.08
	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
		As per item No-	0		-	-	1695.12			
				-		Total	1695.12	Sqm	94.0	159341.28
	14.5	Distempering with acrylic washable distemper to give an even shade								
		On new work (Two or more coats)								
		from item no	0		-	-	630.75			
		from item no	0		-	-	433.62			
						Total	1064.37	Sqm	38.0	40446.06
	14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)								
		As per item No.-	-		-	-	630.75			
				-		Total	630.75	Sqm	56.0	35322
	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.1	Satin synthetic enamel paint								
		Rolling shutter	12	3.00		2.70	97.20			
		Rolling shutter	6	3.70		2.70	59.94			
		Rolling shutter	6	4.00		2.70	64.80			
		Rolling shutter	4	3.90		2.70	42.12			
						Total	264.06	Sqm	55.0	14523.30

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.								
	9.57.2	SS Grade 304								
		Railing stair	1	6.00		1.00	6.00	Sqm		
			1	6.00	@	12.50	75.00	kg	525.0	39375.00
									Grand Total	5844044.455

Executive Engineer
Municipal Corporation
Rajnandgaon (C G)

Assistant Engineer
Municipal Corporation
Rajnandgaon (C G)

Sub Engineer,
Municipal Corporation
Rajnandgaon (C. G.)

MUNICIPAL CORPORATION -RAJNANDGAON										
www.rct.co.in, email: rctpvtltd@gmail.com										
										
ESTIMATE OF FIRST FLOOR										
CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON										
Building SOR wef. 2015										
Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth								
		RCC Plinth to SLAB								
		C1	19	0.30	0.45	3.300	8.46			
		C2	6	0.30	0.50	3.300	2.97			
		C3	14	0.30	0.60	3.300	8.32			
		Lintel Beam								
		X-X								
			2	13.00	0.20	0.15	0.78			
			8	6.60	0.20	0.15	1.58			
			1	20.30	0.20	0.15	0.61			
			1	4.30	0.20	0.15	0.13			
			1	8.40	0.20	0.15	0.25			
			1	1.80	0.10	0.15	0.03			
		Y-Y								
			4	4.00	0.20	0.15	0.48			
			4	15.00	0.20	0.15	1.80			
			3	7.80	0.20	0.15	0.70			
			1	3.10	0.10	0.15	0.05			
		SLAB & BEAM								
		X-X								
			1	13.00	0.20	0.40	1.04			
			1	13.00	0.20	0.60	1.56			
			6	7.60	0.30	0.60	8.21			
			2	20.30	0.30	0.60	7.31			
			1	4.30	0.20	0.45	0.39			
			1	8.40	0.20	0.45	0.76			
			1	1.80	0.20	0.30	0.11			
		Y-Y								
			8	4.00	0.20	0.45	2.88			
			4	15.00	0.20	0.45	5.40			
			3	7.80	0.20	0.45	2.11			
			1	3.10	0.20	0.30	0.19			
		SLAB	1	433.62	SQM	0.125	54.20			
		Stair								
		Waist slab	2	3.70	1.50	0.15	1.67			
		Landing	1	3.10	1.50	0.15	0.70			
		Steps	11	1.50	0.30	0.15	0.74			
		Entry Steps	3	27.00	0.30	0.15	3.65			
		Total					117.05	cum	4260.5	498695.7855
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		RCC Plinth to SLAB								
		C1	19	1.50		3.30	94.05			
		C2	6	1.60		3.30	31.68			
		C3	14	1.80		3.30	83.16			
		Total					208.89	sqm	297.0	62040.33

Sl. No.	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	2.1.8	Beams, lintels, cantilevers & walls								
		Lintel Beam								
		X-X								
			4	13.00		0.15	7.80			
			16	6.60		0.15	15.84			
			2	20.30		0.15	6.09			
			2	4.30		0.15	1.29			
			2	8.40		0.15	2.52			
			2	1.80		0.15	0.54			
		Y-Y								
			8	4.00		0.15	4.80			
			8	15.00		0.15	18.00			
			6	7.80		0.15	7.02			
			2	3.10		0.15	0.93			
		SLAB & BEAM								
		X-X								
			2	13.00		0.40	10.40			
			2	13.00		0.60	15.60			
			12	7.60		0.60	54.72			
			4	20.30		0.60	48.72			
			2	4.30		0.45	3.87			
			2	8.40		0.45	7.56			
			2	1.80		0.30	1.08			
		Y-Y								
			16	4.00		0.45	28.80			
			8	15.00		0.45	54.00			
			6	7.80		0.45	21.06			
			2	3.10		0.30	1.86			
						Total	312.50	sqm	202.0	63125
	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		SLAB	1	433.62	sqmt		433.62			
						Total	433.62	sqm	202.0	87591.24
	2.1.4	Edge of slab, breaks in floor and walls upto 200mm	1	141.8			141.80	Mtr	34.0	4821.2
	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings								
		Waist slab	2	3.70	1.80		13.32			
		Landing	1	3.40	1.65		5.61			
		Steps	22	1.50		0.45	14.85			
		Entry Steps	6.00	27.00		0.45	72.90			
						Total	106.68	sqm	230.0	24536.4
	3.12.1	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 in foundation and plinth all complete:								
		Thermo-Mechanically treated bars FE 500D	1	117.05	x	120.0	14046.1			
		@.120kg per cum of concrete				Total	14046.1	kg	54.5	765513.54
	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		X-X								
			2	13.00	0.20	3.30	17.16			
			8	6.60	0.20	3.30	34.85			
			1	20.30	0.20	3.30	13.40			



Sl. No.	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
			1	4.30	0.20	3.30	2.84			
			1	8.40	0.20	3.30	5.54			
			1	1.80	0.20	3.30	1.19			
		Y-Y								
			4	4.00	0.20	3.30	10.56			
			4	15.00	0.20	3.30	39.60			
			3	7.80	0.20	3.30	15.44			
			1	3.10	0.20	3.30	2.05			
		deduction								
		Rolling shutter	3	3.70	0.20	2.70	-5.99			
		Rolling shutter	3	4.00	0.20	2.70	-6.48			
		Rolling shutter	2	3.90	0.20	2.70	-4.21			
		D1	2	0.75	0.20	2.10	-0.63			
			2	1.20	0.20	2.10	-1.01			
						Total	124.30	cum	3384.0	420637.968
	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.1	In Cement mortar 1:3 (1 cement : 3 fine sand)								
							433.62			
							433.62	Sqm	93.00	40326.66
	11.2	12mm thick cement plaster of mix:								
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
		X-X								
			4	13.00		3.30	171.60			
			16	6.60		3.30	348.48			
			2	20.30		3.30	133.98			
			2	4.30		3.30	28.38			
			2	8.40		3.30	55.44			
			2	1.80		3.30	11.88			
		Y-Y								
			8	4.00		3.30	105.60			
			8	15.00		3.30	396.00			
			6	7.80		3.30	154.44			
			2	3.10		3.30	20.46			
		deduction								
		Rolling shutter	6	3.70		2.70	-59.94			
		Rolling shutter	6	4.00		2.70	-64.80			
		Rolling shutter	4	3.90		2.70	-42.12			
		D1	4	0.75		2.10	-6.30			
		D2	4	1.20		2.10	-10.08			
						Total	1243.02			
		12mm thick cement plaster 50%					621.51	Sqm	91.50	56868.17
	11.3.4	15mm thick cement plaster on the rough side of single or half brick wall of mix:								
		In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			1	621.51	Sqm		621.51			
						Total	621.51	sqm	107.0	66501.57
	11.9	Extra for providing and mixing water proofing materials in cement plaster work in proportion as recommended by manufacturer								
							621.51	Sqm		
		7 Sqm For 1kg					88.79	Kg		
						Total	88.79	sqm	43.0	3817.85



Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	9.27	Supplying and fixing rolling shutter of approved makes made of M.S. laths interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull arrangement complete but excluding the cost of top cover and spring.								
	9.27.1	80x1.25mm M.S. Laths								
		Rolling shutter	3	3.70		2.700	29.97			
		Rolling shutter	3	4.00		2.700	32.40			
		Rolling shutter	2	3.90		2.700	21.06			
						Total	83.43	Sqm	1691.0	141080.13
	9.29	Providing and fixing M.S. sheet top cover for rolling shutter								
	9.29.1	1.25mm thick								
			3	3.70		2.20	24.42			
			3	4.00		3.20	38.40			
			2	3.90		4.20	32.76			
						Total	95.58	Sqm	540.0	51613.20
	9.30	Providing and fixing ball bearing for rolling shutters	1	16.00			16.00			
						Total	16.00	Each	423.0	6768.00
	12.45	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)								
	12.45.2	Granite stone black								
		Stair								
		Steps	22	1.50		0.45	14.85			
		Landing	1	3.10	1.50		4.65			
		Entry Steps	3	27.00		0.45	36.45			
		Verandah	1	57.08	sqm		57.08			
						Total	113.03	sqm	2646.0	299077.38
	12.13	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.								
	12.13.1	Size 600x600mm								
		HALL	1	12.60	3.80		47.88			
		HALL	1	6.20	3.80		23.56			
		Shop	3	6.00	3.70		66.60			
		Shop	3	6.00	4.00		72.00			
		Shop	1	3.90	4.50		17.55			
		Shop	3	3.90	7.80		91.26			
						Total	318.85			
		Skirting 20%					63.77			
							382.62	sqm	1151.0	440395.62

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	12.10	Providing and laying rectified ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.								
	12.10.1	Size 300x300mm								
		Toilet	1	1.50	1.80	-	2.70			
			1	2.00	3.10		6.20			
						Total	8.90	sqm	858.00	736164.0
	12.7	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.								
	12.7.1	Size upto 200x300mm								
		Toilet								
		wall	2	1.50		2.10	6.30			
			2	1.80		2.10	7.56			
			2	2.00		2.10	8.40			
			2	3.10		2.10	13.02			
		Deduct	-2	0.075		2.10	-0.32			
						Total	34.96	sqm	587.00	344569.0
	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.								
	8.1.2	Sal, bijasal, benteak, khair, haldu								
		D1	2	6.60	0.075	0.125	0.12			
						Total	0.12	Cum	61051.0	7326.1
	8.14	Providing and fixing flush door shutters, core of block board construction with frame of first class hard wood and well matched first class Indian teak ply veneering on one face and commercial ply veneering on the other face of the shutter with vertical grains, cross bands and face veneering excluding hinges.								
	8.14.1	40 mm. thick								
		D1	2	1.20	-	2.10	5.04			
						Total	5.04	sqm	2034.00	10251.4
	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:								
	8.58.1	125x85x5.50 mm (Heavy Type)								
		D1	2	-	x	3	6.00			
						Total	6.00	Each	245.00	1470.0
	8.15	Extra for double leaf shutter instead of single leaf.								
		D1	2	1.20	-	2.10	5.04			
						Total	5.04	sqm	52.00	262.1
	8.60	Providing and fixing bright finished brass sliding door bolt with nuts and brass polished MS screws complete:								
	8.60.1	300x16mm								
		D1	2	-	x	1	2.00			




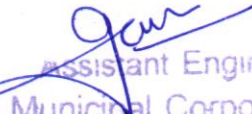
Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
						Total	2.00	Each	475.00	950.0
	8.62	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:								
	8.62.1	250x10mm								
		D1	2	-	x	2	4.00			
						Total	4.00	Each	276.00	1104.0
	8.65	Providing and fixing bright finished brass door handles with brass polished MS screws complete:								
	8.65.1	125 mm								
		D1	2	-	x	4	8.00			
						Total	8.00	Each	55.50	444.0
	8.148	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance ± 1 mm) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge								
	8.148.1	Extruded section Profile size 48x40 mm.								
		D1	2	5.70			11.40			
						Total	11.40	m	191.00	2177.4
	8.150	Providing and fixing factory made 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of $1\text{mm} \pm 0.3\text{mm}$. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification.								
		D1	2	0.75		2.10	3.15			
						Total	3.15	Sqm	2583.00	8136.5


Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately)								
	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).								
		Window	6	1.80	-	1.80	19.44			
							19.44	Sqm		
		For weight (8.5 kg/ Sqm)	1	19.44	x	9.80	190.51			
						Total	190.51	kg	338.00	64392.4
	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		(Window grill)								
		Window	6	1.80	-	1.80	19.44			
						Total	19.44	Sqm		
		For Qty of steel= Area x 35kg/Sqm	1	19.44	x	35.00	680.40			
						Total	680.40	kg	68.00	46267.2
	9.58	Extra for providing and fixing tinted glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.								
	9.58.2	5 mm thickness								
		As per item No-	0	-	-	-	19.44			
						Total	19.44	sqm	134.00	17956.0
	14.6	White washing with whiting to give an even shade.								
	14.6.1	On new work (Three or more coats)								
		from item no	0				433.62			
		from item no	0				621.51			
		from item no	0				621.51			
						Total	1676.64	Sqm	9.0	15089.76
	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
		As per item No-	0		-	-	1676.64			
						Total	1676.64	Sqm	94.0	157604.16
	14.5	Distemping with acrylic washable distemper to give an even shade								
		On new work (Two or more coats)								

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Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
		from item no	0		-	-	621.51			
		from item no	0		-	-	433.62			
						Total	1055.13	Sqm	38.0	40094.94
	14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)								
		As per item No.-	-	-	-	-	621.51			
						Total	621.51	Sqm	56.0	34804.56
	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.1	Satin synthetic enamel paint								
		Rolling shutter	6	3.70		2.70	59.94			
		Rolling shutter	6	4.00		2.70	64.80			
		Rolling shutter	4	3.90		2.70	42.12			
						Total	166.86	Sqm	55.0	9177.30
	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.								
	9.57.2	SS Grade 304								
		Railing stair	1	6.00		1.00	6.00			
			1	39.00		1.00	39.00			
							45.00	Sqm		
			1	45.00	@	12.50	562.50	kg	525.0	295312.50
									Grand Total	4831004.316


Executive Engineer
Municipal Corporation
Rajnandgaon (C G)


Assistant Engineer
Municipal Corporation
Rajnandgaon (C G)


Municipal Engineer
Municipal Corporation
Rajnandgaon (C. G.)

MUNICIPAL CORPORATION -RAJNANDGAON



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CONSULTANTS AND TECHNOCRATS Pvt. Ltd.

MULTIDISCIPLINARY CONSULTANCY

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PARKING

CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON

As per C.G PWD Building sor w.e.f- 01-01-2015

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil	2	10.00	0.40	0.20	1.60			
						Total	1.60	Cum	185	296.0
2	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
			1	10.00	3.00	0.30	9.00			
						Total	9.00	Cum	371	3339.0
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	1	10.00	0.40	0.10	0.40			
						Total	0.40	Cum	2970	1188.0
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. (1:2:4)								
	3.1.5	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
			2	10.00	0.20	0.50	2.00			
						Total	2.00	Cum	4073	8146.0
5	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								

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BORING

CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON

(Building SOR Items) W.E.F. - 01/01/2015

S.NO.	S.O.R. NO.	DESCRIPTION	NOS	L	W	D/H	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by itable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.3	150MM DIA								
			1	25			25	Rmt	339.00	8475.00
	21.1.2	Rocky strata including Boulders.								
	21.1.2.3	150MM DIA	1	65			65	Rmt	396.00	25740.00
	21.2	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants &								
		machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level.								
		Rocky strata including Boulders.								
		150MM DIA	1	20			20	Rmt	424.00	8480.00

2	21.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.								
	21.3.3	150mm nominal size dia	1	27.5			27.50	Rmt	540.00	14850.00
3	21.10	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully								
		developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tube well, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge								
			5				5.00	hour	654.00	3270.00
4	21.11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:								
	21.11.3	150mm nominal size dia	1				1.00	each	217.00	217.00
5	21.17	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tubewell within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable								
			1				1.00	each	1,502.00	1502.00
6	10.7	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:								
	10.7.3	25 mm dia. nominal bore	1	65			65.00	Rmt	258.00	16770.00
		Mech & Electrical SOR								



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WATER SUPPLY

CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON

As per C.G PWD Building sor w.e.f- 01-01-2015

Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
1	19.9	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete:								
	19.9.1	15 mm nominal bore	1	100	-	-	100.00	Rm	131.00	13100.0
	19.9.3	25 mm dia. nominal bore	1	80	-	-	80.00	Rm	222.00	17760.0
	19.9.6	50 mm dia. nominal bore	1	200	-	-	200.00	Rm	398.00	79600.0
2	19.10	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (dia of main line to be measured)								
	19.10.3	25 mm nominal bore	4	-	-	-	4.00	Each	200.00	800.0
	19.10.4	50 mm nominal bore	20	-	-	-	20.00	Each	347.00	6940.0
3	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality:								
	19.13.2	Bib cock (350 grams)	10	-	-	-	10.00	Each	237.00	2370.0
4	19.17	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :								
	19.17.1	15 mm nominal bore	10	-	-	-	10.00	Each	284.00	2840.0
5	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):								
	19.16.1	25 mm nominal bore	6.7	-	-	-	6.67	Each	436.00	2908.0
	19.16.4	50 mm nominal bore	20	-	-	-	20.00	Each	762.00	15240.0

6	19.47	Constructing masonry Chamber 30x30x50 cm, inside with modular well burnt clay bricks of 35 kg/ cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design :									
		(Pg-187, Code No-19.47)	10	-	-	-	10.00	Each	754.00	7540.0	
7	19.24	Providing and filling fine sand or coarser grade all-round the G.I. pipes in external work.									
	19.24.1	15 mm diameter pipe	1	100	-	-	100.00	Rm	33.50	3350.0	
	19.24.3	25 mm diameter pipe	1	80	-	-	80.00	Rm	34.50	2760.0	
	19.24.6	50 mm diameter pipe	1	200	-	-	200.00	Rm	38.00	7600.0	
									Total	162808.0	

Executive Engineer
Municipal Corporation
Ramandgaon (C G)


Assistant Engineer,
Municipal Corporation
Rajnandgaon (C G Y)


S. S. Ingole,
Municipal Corporation
Rajnandgaon (C. G.)

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ESTIMATE OF SEPTIC TANK

CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON

As per C.G PWD Building sor w.e.f- 01-01-2015										
SIZE (5.3x2.0x1.8)										
Sno	Code	Particulars	No	L	B	H/D	Qty	Unit	Rate	Amount
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1	In all types of soils.	1	5.90	2.60	1.80	27.61	cum	185.00	5108.22
	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	1	All types of soils	1	5.90	2.60	0.30	4.60	cum	26.50	121.95
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
			2	5.90	0.15	1.65	2.92			
			2	2.60	0.15	1.65	1.29			
							4.21	cum	65.00	273.49
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1	5.90	2.60	0.15	2.30	cum	2659.00	6118.36
4	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		Base	1	5.60	2.30	0.20	2.58			
		Walls	2	5.30	0.15	1.80	2.86			
			2	2.00	0.15	1.80	1.08			
		Beam	1	2.00	0.10	0.20	0.04			
		Slab	1	5.60	2.30	0.15	1.93			
							8.49	cum	4163.00	35343.87

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5	3.12	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 in foundation and plinth all complete:							
	1	Thermo-Mechanically treated bars FE 415							
		Wt of steel @ 100Kg per CUM	1	100.00	8.49		849.00	kg	54.50
									46270.50
6	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:							
	1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.							
		Base	1	15.80		0.20	3.16		
		Walls inner	2	5.30		1.80	19.08		
			2	2.00		1.80	7.20		
		beam	1	2.00	0.50		1.00		
							30.44	sqm	139.00
									4231.16
	7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)							
		Slab	1	5.30	2.00		10.60	sqm	235.00
									2491.00
7	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in oundation and plinth in:							
	4	Cement Mortar 1:6 (1 cement : 6 coarse sand)	1	2.00	0.10	1.00	0.20	cum	3263.00
									652.60
8	11.1	Providing and making 6mm thick cement plaster of mix:							
	2	In Cement mortar 1:4 (1 cement : 4 fine sand)							
		Walls	2	5.30		1.80	19.08		
			2	2.00		1.80	7.20		
		Baffle	2	2.00		1.20	4.80		
							31.08	sqm	87.00
									2703.96
9	11.5	Neat Cement punning					31.08	sqm	33.00
									1025.64
10	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.							
	1	40 mm thick	1	5.30	2.00		10.60	sqm	222.00
									2353.20
11	20.11	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design:							
	2	With 20 mm diameter round bar	6				6.00	each	135.00
									810.00

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CONSULTANTS AND TECHNOCRATS Pvt. Ltd.

MULTIDISCIPLINARY CONSULTANCY

ESTIMATE OF ELECTRICAL POLE						
CONSTRUCTION OF COMERCIAL COMPLEX , RAJNANDGAON						
As per CG PWD Electrical sor w.e.f. 01-06-2020						
SNo	Code	Particulars	Qty	Unit	Rate	Amount
1	19.8.1	Supply of hot dipped galvanized (in single dip to minimum 75 micron) octogonal pole made of 3mm thick steel grade E-350 sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications with 4 way terminal connector including 4mm thick anchor plate, 4 nos 24mm dia foundation bolts of EN8 grade, and as per IS 2062 & BS EN: 10025. (designed for wind speed upto 180km/hr, IS: 875 Part 3)				
	i	9 metre high, dia 155mm at bottom and 90mm at top, base plate size 260x260x16mm, foundation bolts 750mm long	8	Each	13974.00	111792.00
2	19.12	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as per specification. (SOR: 19.12	3.2	cum	5219.00	16700.80
3	19.11.7	Erection of GI octogonal/ tubular/conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as per specification.				
	i	9 metre high	8	Each	985.00	7880.00
4	19.28	Supplying and fixing of double over hang (Arm) 1500 MM (long)x50 mm dia decorative GI street light pole bracket made out of GI "A" Class pipe welded to 300 MM Long GI Pole canopy of suitable dia at angle of 102.50 Degree including having GI triangular stiffner and making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy including FRP Dome on existing pole etc. as per enclosed drawing and as per direction of engineer-in-charge				
			8	Each	2853.00	22824.00

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SNo	Code	Particulars	Qty	Unit	Rate	Amount
5	15.3.11	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).				
	15.3.11	3.5 x25 sqmm	144	Mtr	117.00	16848.00
	15.3.13	3.5 x50 sqmm	264	Mtr	173.00	45672.00
6	14.2.1	Supplying and laying HDPE pipe of 4kg/Sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification.				
	i	63 mm outer dia	240	Mtr	124.00	29760.00
7	12.19.	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043(R 2016) -1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.1	With 3 metre long GI Pipes and 50 kg back filling compound.	8	Each	10955.00	87640.00
8	9.10.	Supplying and fixing SP MCB, 240 volts, 'B' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.10.1	6 amps to 32 amps	8	Each	151.00	1208.00
	9.10.2	40 amps	2	Each	313.00	626.00
9	:15.28.	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as per specification. .				
	i :15.28.4	25 Sq mm.	144	Each	22.00	3168.00
10	32.2.4	Providing following size ISI marked FRLS PVC insulated , PVC sheathed, flexible copper conductor wire.				
	i 32.2.4	1.5 sq. mm three core	80	mtr	35.00	2800.00

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Executive Engineer
Municipal Corporation
Rajnandgaon (C.G.)

Gan
Assistant Engineer
Municipal Corporation
Rajnandgaon (C.G.)


Engineer,
Municipal Corporation,
Rajnandgaon (C. G.)

