

MODEL ESTIMATE

- Note:-**1) The execution of these model estimates is subjected to compliance / adherence to 60:40 : : Wage: material ratio at Grampanchayat as a UNIT
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**Name of Work : - Construction of Okkane Kana.....
..... under NREGA Scheme.**

H/A : MGNREGA / 2013-14

Est. Cost : Rs.3,10,000/-

Sl. No.	Description of Item	Unit	Nos.	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (Page no. 5/ I-2.4). PW, P & IWTD SR - 2013-14.	Cum							
							40.00	107.33	4293.00
2	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per Specifications. Specification. No. KBS 2.1(b)/2.3.5. (Page no. 5/ I-2.4). PW, P & IWTD SR - 2013-14.	Cum							
							12.00	193.19	2318.00
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 [P.No.12 / I.No.4.2] PW, P & IWTD SR 2013-14.	Cum							
							45.00	3535.38	159092.00
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13. [P.No.25 / I.No.5.6] PW, P & IWTD SR 2013-14.	Cum							
							15.000	2333.98	35010.00

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5	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1. (Page no. 6/ I-2.12). PW, P & IWTD SR - 2013-14.	Cum							15.00	171.72	2576.00	
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (Page no. 6/ I-210). PW, P & IWTD SR - 2013-14.	Cum							10.00	85.86	859.00	
7	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregates @ 0.43cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.7 (P. /I.4.51 PW, P & IWTD -SR 2013-14)	Cum							25.00	4177.37	104434.00	
8	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. [P.No.119 / I.No.15.3] PW, P & IWTD SR 2013-14.	Sqm							15.00	58.45	877.00	
9	Miscellaneous and Unforeseen Charges										541.00	
											Total :	310000.00

(RUPEES : THREE LAKH TEN THOUSAND ONLY)

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<u>:: Rate Analysis ::</u>						
Sl. No.	Description of Item	Unit	Qty	Rate	Amount	For 1 for unit
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (Page no. 5/ I-2.4). PW, P & IWTD SR - 2013-14.	Cum				
	Materials :				NIL	
	Unskilled Labour :	day	5.00	193.38	966.90	96.69
	Skilled Labour :				NIL	
	Sundries at 1% :				9.67	0.97
					976.57	97.66
	Add Over Head Charges 10% :				96.69	9.67
	For 10 Cum :				1073.26	107.33
2	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per Specifications. Specification. No. KBS 2.1(b)/2.3.5. (Page no. 5/ I-2.4). PW, P & IWTD SR - 2013-14.	Cum				
	Materials :				NIL	
	Unskilled Labour :	day	9.00	193.38	1740.42	174.04
	Skilled Labour :				NIL	
	Sundries at 1% :				17.40	1.74
					1757.82	175.78
	Add Over Head Charges 10% :				174.04	17.40
	For 10 Cum :				1931.87	193.19

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3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 [P.No.12 / I.No.4.2] PW, P & IWTD SR 2013-14.	Cum				
	A - Materials :					
	Broken stone aggregate 40mm size :	Cum	4.46	600.00	2676.00	267.60
	Broken stone aggregate 20mm size :	Cum	2.23	850.00	1895.50	189.55
	Broken stone aggregate 12mm to 10mm size :	Cum	2.23	700.00	1561.00	156.10
	Sand :	Cum	4.65	1300.00	6045.00	604.50
	Cement :	Q	22.00	660.00	14520.00	1452.00
					26697.50	2669.75
	B - Skilled Labour :					
	Mason Class II (with tools) :	day	1.8	192.40	346.32	34.63
					346.32	34.63
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	17.70	193.38	3422.83	342.28
	Mazdoor Light/Bisti :	Day	14.10	193.38	2726.66	272.67
					6149.48	614.95
	D - Mixer (concrete) :	Day	0.71	1376.00	976.96	97.70
	Sundries at 1% at A :				266.98	26.70
	Water 1% on A :				266.98	26.70
					533.95	53.40
	Grand Total :				34704.21	3470.42
	Add Over Head Charges 10% on B & C :				649.58	64.96
	For 10 Cum :				35353.79	3535.38
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13. [P.No.25 / I.No.5.6] PW, P & IWTD SR 2013-14.	Cum				
	A - Materials :					
	Size Stone 20x20x25 cms :	Each	910.00	10.00	9100.00	910.00
	Bond Stone 20x20x45 cm :	Each	55.00	20.00	1100.00	110.00
	Boulders :	Cum	0.41	500.00	205.00	20.50
	Sand :	Cum	2.94	1300.00	3822.00	382.20
	Cement :	Q	1.08	660.00	712.80	71.28
					14939.80	1493.98
	B - Skilled Labour :					

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	Mason Class I (with tools) :	day	6.00	197.4	1184.40	118.44
	Mason Class II (with tools) :	day	8.00	192.4	1539.20	153.92
					2723.60	272.36
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	12.00	193.38	2320.56	232.06
	Mazdoor Light/Bisti :	Day	12.00	193.38	2320.56	232.06
					4641.12	464.11
	Sundries at 1% at A :					
	Water 1% on A :					
					149.40	14.94
					149.40	14.94
					298.80	29.88
	Grand Total :					
	Add Over Head Charges 10% on B & C :					
					736.47	73.65
	For 10 Cum :					
					23339.79	2333.98
5	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1. (Page no. 6/ I-2.12). PW, P & IWTD SR - 2013-14.					
		Cum				
	Materials :					
	Unskilled Labour :					
		day	8.00	193.38	1547.04	154.70
	Skilled Labour :					
	Sundries at 1% :					
					15.47	1.55
					1562.51	156.25
	Add Over Head Charges 10% :					
					154.70	15.47
	For 10 Cum :					
					1717.21	171.72
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (Page no. 6/ I-210). PW, P & IWTD SR - 2013-14.					
		Cum				
	Materials :					
	Unskilled Labour :					
		day	4.00	193.38	773.52	77.35
	Skilled Labour :					
	Sundries at 1% :					
					7.74	0.77
					781.26	78.13
	Add Over Head Charges 10% :					
					77.35	7.74
	For 10 Cum :					
					858.61	85.86

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7	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregates @ 0.43cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.7 (P. /I.4.51 PW, P & IWTD -SR 2013-14)	Cum				
	A - Materials :					
	Broken stone aggregate 20mm size :	Cum	4.21	850.00	3578.50	357.85
	Broken stone aggregate 12mm to 10mm size :	Cum	2.19	700.00	1533.00	153.30
	Sand :	Cum	4.60	1300.00	5980.00	598.00
	Cement :	Q	30.00	660.00	19800.00	1980.00
	Super Palsticizer	Kgs	30.00	70.00	2100.00	210.00
					32991.50	3299.15
	B - Skilled Labour :					
	Mason Class II (with tools) :	day	1.8	192.40	346.32	34.63
					346.32	34.63
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	17.70	193.38	3422.83	342.28
	Mazdoor Light/Bisti :	Day	14.10	193.38	2726.66	272.67
					6149.48	614.95
	OTHER CHARGES :					
	Mixer (Concrete) :	Day	0.710	1376.00	976.96	97.70
					976.96	97.70
	Sundries at 1% at A :				329.92	32.99
	Water 1% on A :				329.92	32.99
					659.83	65.98
	Grand Total :				41124.09	4112.41
	Add Over Head Charges 10% on B & C :				649.58	64.96
	For 10 Cum :				41773.67	4177.37
8	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. [P.No.119 / I.No.15.3] PW, P & IWTD SR 2013-14.	Sqm				
	A - Materials :					
	Sand :	Cum	0.02	1300.00	26.00	2.60
	Cement	Q	0.0087	660.00	5.74	0.57
					31.74	3.17

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	B - Skilled Labour :					
	Mason Class II (with tools) :	day	0.9	192.40	173.16	17.32
					173.16	17.32
	C - Unskilled Labour :					
	Mazdoor Light/Bisti :	Day	1.70	193.38	328.75	32.87
					328.75	32.87
	Sundries at 1% at A :				0.32	0.03
	Water 1% on A :				0.32	0.03
					0.63	0.06
	Grand Total :				534.28	53.43
	Add Over Head Charges 10% on B & C :				50.19	5.02
	For 10 Sqm :				584.47	58.45

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:: ABSTRACT ::

Sl. No.	Item	Unit	Qty	Cost of materials		Cost of Skilled Labours		Cost of Unskilled Labours	
				Rate	Amount	Rate	Amount	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (Page no. 5/ I-2.4). PW, P & IWTD SR - 2013-14.	Cum	40.00	-	-	-	-	107.33	4293.04
2	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per Specifications. Specification. No. KBS 2.1(b)/2.3.5. (Page no. 5/ I-2.4). PW, P & IWTD SR - 2013-14.	Cum	12.00	-	-	-	-	193.19	2318.24
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 [P.No.12 / I.No.4.2] PW, P & IWTD SR 2013-14.	Cum	45.00	2669.75	120138.75	34.63	1558.44	614.95	27672.68

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4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13. [P.No.25 / I.No.5.6] PW, P & IWTD SR 2013-14.	Cum	15.00	1493.98	22409.70	272.36	4085.40	464.11	6961.68
5	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1. (Page no. 6/ I-2.12). PW, P & IWTD SR - 2013-14.	Cum	15.00	-	-	-	-	171.72	2575.82
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (Page no. 6/ I-210). PW, P & IWTD SR - 2013-14.	Cum	10.00	-	-	-	-	85.86	858.61
7	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggretes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.7 (P. /I.4.51 PW, P & IWTD -SR 2013-14)	Cum	25.00	3299.15	82478.75	34.63	865.80	614.95	15373.71
8	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. [P.No.119 / I.No.15.3] PW, P & IWTD SR 2013-14.	Sqm	15.00	3.17	47.61	17.32	259.74	32.87	493.12
Total :					225074.81		6769.38		60546.89

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<u>:: ABSTRACT ::</u>	
Cost of Materials :	225074.81
Cost of Skilled Labour :	6769.38
Cost of Unskilled Labour :	60546.89
Others :	17608.92
TOTAL :	310000.00