

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
- 2) These model estimates shall be locally approved (technically) with same items (exact dimensions can vary) and go ahead with execution as per MGNREGA guidelines.
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<u>Name of Work</u> :- Construction of Cattle Shelter.....									
..... under NREGA Scheme.									
<i>H/A : MGNREGA / 2013-14</i>					<i>Est. Cost : Rs.35,000/-</i>				
Sl. No.	Description of Item	Unit	Nos.	L	B	D	Qty	Rate	Amount
1	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							
			1	7.75	3.50	0.10	2.71		
			1	7.70	0.60	0.10	0.46		
	Urine Tank		1	1.20	1.20	1.00	1.44		
							4.61	193.19	891.00
2	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 [P.No.14 / I.No.4.13] PW, P & IWTD SR 2012-13.	Cum							
			1	7.75	3.50	0.10	2.71		
			1	7.70	0.60	0.10	0.46		
	Urine Tank		1	1.20	1.20	0.10	0.14		
							3.32	4427.11	14691.00

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3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, 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 [P.No.12 / I.No.4.6] PW, P & IWTD SR 2012-13.	Cum							
	Urine Tank		2	1.20	0.90	0.075	0.16		
			2	1.00	0.90	0.075	0.14		
							0.30	3752.95	1115.00
4	KSRB13-3.8 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 80mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 [P.No.102 / I.No.13.17] PW, P & IWTD SR 2013-14.	Rmtr							
	Urine Tank		5	2.50			12.500		
							12.500	662.62	8283.00
5	KSRB 8.3-1: Providing and laying to required line and slope roofing with corrugated asbestos cement sheet 6 mm, thick fixed with galvanized iron J or L hooks, bolts and nuts 8 mm. dia C.I. plain and bitumen washers over the existing purlins, rafters and trusses including cost of specification No.KBS 8.5. [P.No.51 / I.No.8.3] PW, P & IWTD SR 2013-14.	Sqm							
			6	4.00			24.000		
							24.00	307.28	7375.00
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick [P.No.13 / I.No.4.4] PW, P & IWTD SR 2013-14.	Sqm							
			2	7.70	0.50		7.70	280.62	2161.00
7	Miscellaneous and Unforeseen Charges								484.00
							Total :		35000.00
(RUPEES : THIRTY FIVE 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 2-2.2: 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
2	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 [P.No.14 / I.No.4.13] PW, P & IWTD SR 2012-13.	Cum				
	A - Materials :					
	Broken stone aggregate 20mm size :	Cum	4.54	850.00	3859.00	385.90
	Broken stone aggregate 12mm to 10mm size :	Cum	2.36	700.00	1652.00	165.20

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	Sand :	Cum	4.60	1300.00	5980.00	598.00
	Cement	Q	32.00	660.00	21120.00	2112.00
	Super palsticizer	Kgs	30.00	70.00	2100.00	210.00
					34711.00	3471.10
	B - Skilled Labour :					
	Mason Class II (with tools) :	day	2.8	192.40	538.72	53.87
					538.72	53.87
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	19.70	193.38	3809.59	380.96
	Mazdoor Light/Bisti :	Day	14.10	193.38	2726.66	272.67
					6536.24	653.62
	D - Mixer (concrete) :	Day	0.71	1376.00	976.96	97.70
	HOM of Vibrator :	Day	0.71	150.00	106.50	10.65
					1083.46	108.35
	Sundries at 1% at A :				347.11	34.71
	Water 1% on A :				347.11	34.71
					694.22	69.42
	Grand Total :				43563.64	4356.36
	Add Over Head Charges 10% on B & C :				707.50	70.75
	For 10 Cum :				44271.14	4427.11
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggretes @ 0.459cum, 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 [P.No.12 / I.No.4.6] PW, P & IWTD SR 2012-13.		Cum			
	A - Materials :					
	Broken stone aggregate 20mm size :	Cum	5.85	850.00	4972.50	497.25
	Broken stone aggregate 12mm to 10mm size :	Cum	2.93	700.00	2051.00	205.10
	Sand :	Cum	4.59	1300.00	5967.00	596.70
	Cement	Q	24.00	660.00	15840.00	1584.00
					28830.50	2883.05
	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 :				288.31	28.83

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	Water 1% on A :				288.31	28.83
					576.61	57.66
	Grand Total :				36879.87	3687.99
	Add Over Head Charges 10% on B & C :				649.58	64.96
	For 10 Cum :				37529.45	3752.95
4	KSRB13-3.8 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 80mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 [P.No.102 / I.No.13.17] PW, P & IWTD SR 2013-14.	Cum				
	A - Materials :					
	GI pipe 80mm dia B Class	M	10.00	611.00	6110.00	611.00
	add 2% for fittings and wastages				122.20	12.22
					6232.20	623.22
	B - Skilled Labour :					
	Licenced Plumber	day	0.25	172.40	43.10	4.31
					43.10	4.31
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	0.66	193.38	127.63	12.76
					127.63	12.76
	D - Other Chargesr :					
	Handling loading and Unloading at 2% on A				124.64	12.46
					124.64	12.46
	Sundries at 1% at A :				62.32	6.23
	Water 1% on A :				62.32	6.23
					124.64	12.46
	Grand Total :				6609.12	660.91
	Add Over Head Charges 10% on B :				17.07	1.71
	For 10 Cum :				6626.19	662.62
5	KSRB 8.3-1: Providing and laying to required line and slope roofing with corrugated asbestos cement sheet 6 mm, thick fixed with galvanized iron J or L hooks, bolts and nuts 8 mm. dia C.I. plain and bitumen washers over the existing purlins, rafters and trusses including cost of specification No.KBS 8.5. [P.No.51 / I.No.8.3] PW, P & IWTD SR 2013-14.	Sqm				
	A - Materials :					
	AC Sheet 6 mm thick corrugated	Sqm	231.00	165.00	38115.00	176.34
	hoot with nuts and bolts 8mm dia	Each	476.000	17.00	8092.00	37.44
	GI Washers :	Each	476.000	14.00	6664.00	30.83
	Bitumen Washers :	Each	476.000	1.00	476.00	2.20

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					53347.00	246.82
	B - Skilled Labour :					
	Carpenter Class II	day	17.28	192.40	3324.67	15.38
					3324.67	15.38
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	17.28	193.38	3341.61	15.46
					3341.61	15.46
	Sundries at 1% at A :				533.47	2.47
	Handling loading and unloading on 2% on A :				1066.94	4.94
					1600.41	7.40
	Grand Total :				61613.69	285.06
	Add Over Head Charges 10% on B & C :				666.63	22.22
	For 30 Rmtr :				62280.32	307.28
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick [P.No.13 / I.No.4.4] PW, P & IWTD SR 2013-14.	Sqm				
	A - Materials :					
	Granite Slabs 7.5cms to 8cm thick :	Sqm	10.00	100.00	1000.00	100.00
	Sand :	Cum	0.20	1300.00	260.00	26.00
	Cement :	Q	0.04	660.00	26.40	2.64
					1286.40	128.64
	B - Skilled Labour :					
	Mason Class I (with tools) :	day	1.5	197.40	296.10	29.61
	Mason Class II (with tools) :	day	1.5	192.40	288.60	28.86
					584.70	58.47
	C - Unskilled Labour :					
	Mazdoor Heavy :	Day	2.50	193.38	483.45	48.35
	Mazdoor Light/Bisti :	Day	1.50	193.38	290.07	29.01
					773.52	77.35
	Sundries at 1% at A :				12.86	1.29
	Water 1% on A :				12.86	1.29
					25.73	2.57
	Grand Total :				2670.35	267.03
	Add Over Head Charges 10% on B & C :				135.82	13.58
	For 10 Cum :				2806.17	280.62

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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 2-2.2: 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	4.61	-	-	-	-	193.19	891.46
2	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 [P.No.14 / I.No.4.13] PW, P & IWTD SR 2012-13.	Cum	3.32	3471.10	11518.85	53.87	178.77	653.62	2169.05

3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, 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 [P.No.12 / I.No.4.6] PW, P & IWTD SR 2012-13.	Cum	0.30	2883.05	856.27	34.63	10.29	614.95	182.64
4	KSRB13-3.8 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 80mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 [P.No.102 / I.No.13.17] PW, P & IWTD SR 2013-14.	Rmtr	12.500	623.22	7790.25	4.31	53.88	12.76	159.54
5	KSRB 8.3-1: Providing and laying to required line and slope roofing with corrugated asbestos cement sheet 6 mm, thick fixed with galvanized iron J or L hooks, bolts and nuts 8 mm. dia C.I. plain and bitumen washers over the existing purlins, rafters and trusses including cost of specification No.KBS 8.5. [P.No.51 / I.No.8.3] PW, P & IWTD SR 2013-14.	Sqm	24.00	246.82	5923.61	15.38	369.17	15.46	371.05
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick [P.No.13 / I.No.4.4] PW, P & IWTD SR 2013-14.	Sqm	7.70	128.64	990.53	58.47	450.22	77.35	595.61
Total :					27079.49		1062.32		4369.35

:: ABSTRACT ::

Cost of Materials :	27079.49
Cost of Skilled Labour :	1062.32
Cost of Unskilled Labour :	4369.35
Others :	2488.83
TOTAL :	35000.00