



Detailed Estimate

Irrigation & Water Resources Department, Haryana



Office Name:

Division : Mahendragarh WS Divn Narnaul[M/Garh
W.S.Divn. Narnaul]

Circle :JLN W.S. Circle Narnaul[JLN CIRCLE,
NARNAUL]

Name of Work -{Code}:

Bachhod, Estimate for laying RCC pipeline of 450 mm
i/dia NP-2 for filling village pond Bachhod from Km.
3.900/L of Shampura Minor for recharging ground water
table and providing irrigation facilities. (Ateli Constituency)
(Under Atal Bhujal Yojana) **[IRR/2023-24/105397]**

Estimate Cost:

Rs. 27.89 Lakhs [Adm. Approved Status : Yes, 05/04/2023]

Technical Approval Cost:

Rs. 26.76 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹22,48,852	₹4,27,282	₹26,76,134
Total	₹22,48,852	₹4,27,282	₹26,76,134

Days in which work is likely
to be completed:

420 Days

Location of Estimate

Village:BACHHOD

Assembly Constituency:

ATELI

District:

MAHENDRAGARH

Work Category:

Other

Disclaimer - Sufficient efforts have been made to make the online calculations accurately. But, calculations are required to be cross checked by each user at each level. Dealing officials will be responsible for checking the accuracy of all Calculation in the estimate in all respect.



Detailed Estimate

Irrigation & Water Resources Department, Haryana



Work Name: Bachhod, Estimate for laying RCC pipeline of 450 mm i/dia NP-2 for filling village pond Bachhod from Km. 3.900/L of Shampura Minor for recharging ground water table and providing irrigation facilities. (Ateli Constituency) (Under Atal Bhujal Yojana)

ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : Laying RCC pipeline 450 mm i/dia NP-2 and other allied works.							
Sub-Component :- Laying RCC pipeline 450mm i/dia NP-2 including constructing brick masonry Hodi and outfall khurra.							
1	HSR	HSR Item 4.16.1.3 -Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : 1.3. Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm HSR Rate(Rs.) 86.00 Through Rate	Metre	2595.294	86.00	223195	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		450mm i/d RCC pipeline for Required Depth above 1.50 mtr. But not exceeding 3.00 Mtr. BGL	1.00	457.200	0.000	0.000	457.200
		D/d of Earthwork for Hodi above 1.50 mtr. But not exceeding 3.00 Mtr. BGL (1.219x1.219 mtr.)	4.00	4.203	0.000	0.000	-16.812
		450mm i/d RCC pipeline for Required Depth upto 1.50 Mtr. BGL	1.00	2194.560	0.000	0.000	2194.560
		D/d of Earthwork for Hodi upto 1.50 Mtr. BGL (1.219x1.219 mtr.)	6.00	3.807	0.000	0.000	-22.842
		D/d of Earthwork for Hodi upto 1.50 Mtr. BGL (1.219x1.219 mtr.)	4.00	4.203	0.000	0.000	-16.812
							2595.294
2	HSR	HSR Item 4.17 -Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth up to 1.5 metre). HSR Rate(Rs.) 3.00 Through Rate	Metre	440.388	3.00	1321	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		450mm i/d RCC pipeline for Required Depth above 1.50 mtr. But not exceeding 3.00 Mtr. BGL	1.00	457.200	0.000	0.000	457.200
		D/d of Earthwork for Hodi upto 1.50 Mtr. BGL (1.219x1.219 mtr.)	4.00	4.203	0.000	0.000	-16.812
							440.388
3	HSR	HSR Item 6.1.6 -Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work below plinth level and up to Floor IV level: 6. 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size) HSR Rate(Rs.) 2442.00 Through Rate	cum	33.935	2442.00	82869	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Hodi (size 1.219x1.219)	6.00	2.987	2.987	0.305	16.328
		Hodi (size 1.219x1.219)	4.00	3.231	3.231	0.305	12.736
		Khurra Main Wall	1.00	3.748	1.067	0.152	0.608
		Khurra Side Wall	2.00	6.554	1.067	0.152	2.126
		Khurra Front Toe Wall	1.00	3.292	1.067	0.152	0.534

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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		In bed of Khurra	1.00	6.920	1.524	0.152	1.603
							33.935
4	HSR	HSR Item 20.62.6 -Providing, lowering, laying, cutting (cut surface to be uniformly finished), jointing with rubber rings marked with IS : 5382 and testing of SPIGOT AND SOCKETTED RCC, NP2 MARKED WITH IS : 458-1988 and specials into trenches for all depths including carriage, loading, unloading, stacking, handling, re-handling etc. complete is all respects to the satisfaction to the Engineer - in -charge. 6. 450 mm i/d HSR Rate(Rs.) 648.00 Through Rate	Per Metre	2182.370	648.00	1414176	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		450mm i/d RCC NP-2 Pipeline	1.00	2194.560	0.000	0.000	2194.560
		D/d pipe between Hodi (Size 1.219x1.219 mtr.)	10.00	1.219	0.000	0.000	-12.190
							2182.370
5	HSR	HSR Item 11.5.3 -12 mm cement plaster of mix : 3. 1:4 (1 cement: 4 fine sand) HSR Rate(Rs.) 84.00 Through Rate	Sqm	212.970	84.00	17889	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Hodi size 1.219x1.219 mtr. (6 No. wall x 4 side) (Inner Side)	24.00	1.219	2.165	0.000	63.339
		Hodi size 1.219x1.219 mtr. (4 No. wall x 4 side) (Inner Side)	16.00	1.219	2.774	0.000	54.104
		Hodi size 1.219x1.219 mtr. (10 No. wall x 4 side) Outer Side)	40.00	1.921	0.305	0.000	23.436
		Hodi size 1.219x1.219 mtr. (10 No. short wall x 2 side) (On top of wall)	20.00	1.219	0.351	0.000	8.557
		Hodi size 1.219x1.219 mtr. (10 No. Long wall x 2 side) (On top of wall)	20.00	1.921	0.351	0.000	13.485
		Khurra main wall (on 4th step on both side)	2.00	0.457	0.457	0.000	0.418
		Khurra main wall (on 5th step on both side)	2.00	0.351	0.457	0.000	0.321
		Khurra 02 Nos. side wall (inner side)	2.00	7.621	1.219	0.000	18.580
		Khurra 02 Nos. side wall (outer side)	2.00	7.621	1.569	0.000	23.915
		Khurra 2 No. side wall (3rd step both end)	2.00	0.579	0.305	0.000	0.353
		Khurra 2 No. side wall (4th step both end)	2.00	0.457	0.457	0.000	0.418
		Khurra 2 No. side wall (5th step both end)	2.00	0.351	0.457	0.000	0.321
		D/d pipe section in main wall of khurra (1x2side)	2.00	1.000	0.102	0.000	-0.204
		D/d for outer dia of 450mm i/d RCC pipe section in Hodi (9 No. Hodi x 2 No. wall) plus 1 No. wall	19.00	1.000	0.212	0.000	-4.028
		Khurra main wall (inner side)	1.00	3.444	1.219	0.000	4.198
		Khurra main wall (outer side)	1.00	3.444	1.569	0.000	5.404
		Khurra main wall (on 3rd step on both side)	2.00	0.579	0.305	0.000	0.353
							212.970

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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
6	HSR	HSR Item 4.12.1 -Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead up to 50 m and lift up to 1.5 m, as directed by Engineer-in-charge. 1. All kinds of soil HSR Rate(Rs.) 78.00 Through Rate	cum	392.189	78.00	30591	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Hodi size 1.219 x 1.219 mtr.	6.00	3.578	3.578	2.363	181.508
		Hodi size 1.219 x 1.219 mtr.	4.00	3.974	3.974	2.972	187.743
		Khurra Main Wall	1.00	3.748	1.067	1.067	4.267
		Khurra Side Wall	2.00	6.554	1.067	1.067	14.923
		Khurra Front Toe Wall	1.00	3.292	1.067	1.067	3.748
							392.189
7	HSR	HSR Item 7.21.1 -Brick work with common burnt clay non-modular bricks of class designation 10.5 in foundation and plinth in: 1. Cement mortar 1:4 (1 cement : 4 coarse sand) HSR Rate(Rs.) 3693.00 Through Rate	cum	107.273	3693.00	396159	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		1st step of Hodi size 1.219x1.219 mtr (6 No. Hodi x 2 No. short walls)	12.00	1.219	0.579	0.610	5.166
		1st step of Hodi size 1.219x1.219 mtr (6 No. Hodi x 2 No. Long walls)	12.00	2.377	0.579	0.610	10.074
		2nd step of Hodi size 1.219x1.219 mtr (6 No. Hodi x 2 No. short walls)	12.00	1.219	0.457	0.610	4.078
		2nd step of Hodi size 1.219x1.219 mtr (6 No. Hodi x 2 No. Long walls)	12.00	2.133	0.457	0.610	7.135
		3rd step of Hodi size 1.219x1.219 mtr (6 No. Hodi x 2 No. short walls)	12.00	1.219	0.351	1.143	5.869
		3rd step of Hodi size 1.219x1.219 mtr (6 No. Hodi x 2 No. Long walls)	12.00	1.921	0.351	1.143	9.248
		D/d pipe section in Hodi wall (size 1.219x1.219 mtr.) (5 No. Hodi x 2 No. wall plus 1 No. wall)	11.00	1.000	0.457	0.212	-1.066
		1st step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. short walls)	8.00	1.219	0.701	0.610	4.170
		1st step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. Long walls)	8.00	2.621	0.701	0.610	8.966
		2nd step of Hodi size 1.219x1.219 mtr (4No. Hodi x 2 No. short walls)	8.00	1.219	0.579	0.610	3.444
		2nd step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. Long walls)	8.00	2.377	0.579	0.610	6.716
		3rd step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. short walls)	8.00	1.219	0.457	0.610	2.719
		3rd step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. Long walls)	8.00	2.133	0.457	0.610	4.757
		4th step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. short walls)	8.00	1.219	0.351	1.142	3.909
		4th step of Hodi size 1.219x1.219 mtr (4 No. Hodi x 2 No. Long walls)	8.00	1.921	0.351	1.142	6.160
		D/d pipe section in Hodi wall (size 1.219x1.219 mtr.) (4 No. Hodi x 2 No. wall)	8.00	1.000	0.457	0.212	-0.775
		Brick on edge in bed of Hodi (Size 1.219x1.219 mtr.	10.00	1.219	1.219	0.198	2.942
		Khurra Main Wall (1st step)	1.00	3.444	0.823	0.305	0.864

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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		Khurra Main Wall (2nd step)	1.00	3.444	0.701	0.610	1.473
		Khurra Main Wall (3rd step)	1.00	3.444	0.579	0.305	0.608
		Khurra Main Wall (5th step)	1.00	3.444	0.351	0.457	0.552
		Khurra Side Wall (1st step)	2.00	7.560	0.823	0.305	3.795
		Khurra Side Wall (2nd step)	2.00	7.621	0.701	0.610	6.518
		Khurra Side Wall (3rd step)	2.00	7.621	0.579	0.305	2.692
		Khurra Side Wall (4th step)	2.00	7.621	0.457	0.457	3.183
		Khurra Side Wall (5th step)	2.00	7.621	0.351	0.457	2.445
		Khurra Front Toe wall (1st step)	1.00	1.524	0.823	0.305	0.383
		Khurra Front Toe wall (2nd step)	1.00	1.524	0.701	0.610	0.652
		D/d for 450mm i/d pipe section in main wall of khurra	1.00	1.000	0.579	0.212	-0.123
		Khurra Main Wall (4th step)	1.00	3.444	0.457	0.457	0.719
							107.273
8	HSR	HSR Item 6.44 -Providing, hoisting and fixing up to floor four level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to floor four level, including the cost of required centering, shuttering but , excluding the cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). HSR Rate(Rs.) 5081.00 Through Rate	cum	3.764	5081.00	19125	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		10 No. Hodies Slab of size 1.219x1.219 on 450 mm dia RCC pipeline	10.00	1.921	1.921	0.102	3.764
							3.764
9	HSR	HSR Item 6.1.2 -Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work below plinth level and up to Floor IV level: 2. 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) HSR Rate(Rs.) 3476.00 Through Rate	cum	2.183	3476.00	7588	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Coping on top of Khurra Main wall	1.00	3.444	0.351	0.076	0.092
		Coping on top of Khurra Side wall	2.00	7.621	0.351	0.076	0.407
		Coping on top of Khurra front wall	1.00	1.524	0.701	0.076	0.081
		In bed of Khura	1.00	6.920	1.524	0.152	1.603
							2.183

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Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
10	HSR	HSR Item 6.33.6 -Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect below plinth level 6. Thermo-Mechanically Treated bars of grade Fe-500D or more. HSR Rate(Rs.) 61.00 Through Rate	Kg.	360.044	61.00	21963	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		10 mm steel bars for hodi slab on short side (1.821 Mtr / 0.150 Mtr. C/C distance plus 1 extra bar = 13.14 No. bars or 13 No.) (13 bars X 0.860 mtr each length X 10 No. Hodi X 2 No. slab each = 223.600 Rmtr)	0.62/223.600	0.000	0.000	0.000	137.961
		10 mm steel bars for hodi slab on long side (0.860 Mtr / 0.150 Mtr. C/C distance plus 1 extra bar = 6.73 No. bars or 7 No.) (7 bars X 1.821 mtr each length X 10 No. Hodi X 2 No. slab each = 254.94 Rmtr)	0.62/254.940	0.000	0.000	0.000	157.298
		10 mm steel bars for Iron Jali on outlet pipe side 1.05 mtr long X 10 No. X 10 No. Hodi = 105.00 Mtr.	0.62/105.000	0.000	0.000	0.000	64.785
							360.044
11	HSR	HSR Item 9.57.2 -Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 2. 110 mm diameter HSR Rate(Rs.) 200.00 Through Rate	Metre	10.000	200.00	2000	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		PVC pipe from Shampura Minor to 1st Hodi	1.00	10.000	0.000	0.000	10.000
							10.000
12	HSR	HSR Item 21.28 -Providing and fixing steel bar embedded plastic steps of size 263mm x 165mm of orange colour, confirming to specification in pump chambers, manholes etc., having minimum 3mm thick polypropylene polymer confirming to is:10910 encapsulated on 12mm dia ribbed steel bars per IS :1786. The rate include cost of setting the same to correct lines and levels duly embedded in 1:2:4 cement concrete including carriage, loading, unloading, stacking, handling, re-handling etc., complete in all respect to the satisfaction of Engineer-in-charge HSR Rate(Rs.) 298.00 Through Rate	Each	58.000	298.00	17284	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		5 Nos. of Steps per Hodi in 6 No. hodi	5.00/6.000	0.000	0.000	0.000	30.000
		7 Nos. of Steps per Hodi in 4 No. hodi	7.00/4.000	0.000	0.000	0.000	28.000
							58.000
		Sub-Component Total Amount				2234161	

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : Laying RCC pipeline 450 mm i/dia NP-2 and other allied works.							
Sub-Component :- Construction and erection of sign board (1 No.)							
13	HSR	HSR Item 11.113 -Lettering with black Japan paint of approved brand and manufacture HSR Rate(Rs.) 2.00 Through Rate	per letter per cm height	2000.000	2.00	4000	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		(Assume 2000 words) (200 Words x 10Cm Height each word)	1.00 /2000.000	0.000	0.000	0.000	2000.000
							2000.000
14	HSR	HSR Item 2.B0979 - B0979. MS plates, angles, channels etc. i/c fabrication HSR Rate(Rs.) 80.00 Rate	Kg.	45.216	80.00	3617	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Weight of MS Plate 4mm thick (size 1.200 mtr. x 1.200 mtr. x 0.004x7850 = 45.216 Kg. per Sign Board)	1.00/45.216	0.000	0.000	0.000	45.216
							45.216
15	HSR	HSR Item 4.12.1 -Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead up to 50 m and lift up to 1.5 m, as directed by Engineer-in-charge. 1. All kinds of soil HSR Rate(Rs.) 78.00 Through Rate	cum	0.432	78.00	34	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Earthwork for 1 No. board x 2 No. legs = 2 No.	2.00	0.600	0.600	0.600	0.432
							0.432
16	HSR	HSR Item 6.1.2 -Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work below plinth level and up to Floor IV level: 2. 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) HSR Rate(Rs.) 3476.00 Through Rate	cum	0.432	3476.00	1502	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		PCC 1:2:4 in foundation (for 1 No. board x 2 No. legs)	2.00	0.600	0.600	0.600	0.432
							0.432
17	HSR	HSR Item 13.30.1 -Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 1. Hot finished welded type tubes HSR Rate(Rs.) 105.00 Through Rate	Kg.	52.752	105.00	5539	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		(Pipe size 75mm x 75mm having thickness 2mm = 8.00 Rmtr x 0.002x0.30x7850 = 37.680 Kg.) plus (Pipe size 50mm x 50mm having thickness 2mm = 4.80 Rmtr. x0.002x0.20x7850 = 15.072 Kg.) Total weight = 52.752 Kg. for 1 No. Sign board	1.00/52.752	0.000	0.000	0.000	52.752
							52.752
Sub-Component Total Amount						14692	

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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		Component Total Amount				2248852	
		Grand Total				2248852	

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Final Work Cost Abstract				
Sr.No	Description	Items Amount (Rs)	Total Charges (Rs.)	Total Amount (Rs.)
	Main-Component : Laying RCC pipeline 450 mm i/dia NP-2 and other allied works.			
	Sub-Component: Laying RCC pipeline 450mm i/dia NP-2 including constructing brick masonry Hodi and outfall khurra.	22,34,161	4,24,491	26,58,651
	Sub-Component: Construction and erection of sign board (1 No.)	14,692	2,791	17,483
	Main Component Total	₹22,48,852	₹4,27,282	₹26,76,134
	Grand Total	₹22,48,852	₹4,27,282	₹26,76,134

Executive Engineer
IRRIGATION Division
Mahendragarh WS Divn Narnaul[M/Garh
W.S.Divn. Narnaul]

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Detailed Estimate Abstract Cost (in Rs.)					
Sr. No.	HSR Amount	NS Amount	Permission from Other Department	All Charges	Total Amount
1.	22,48,852.12	0.00	0.00	427281.90	26,76,134.02
Total :-	22,48,852	0	0	427282	26,76,134

Package-Wise Abstract Cost (in Rs.)					
Sr. No.	Package Description	HSR Amount	NS Amount	Total Amount	No. of days require for Completion of this Package by Contractor from dt. of start of work.
1.	Package 1-(Component-1). Laying RCC pipeline 450 mm i/dia NP-2 and other allied works.	22,48,852.12	0.00	22,48,852.12	365
Total :-		22,48,852	0.00	22,48,852	

Disclaimer - Sufficient efforts have been made to make the online calculations accurately. But, calculations are required to be cross checked by each user at each level. Dealing officials will be responsible for checking the accuracy of all Calculation in the estimate in all respect.