



Detailed Estimate

Irrigation & Water Resources Department, Haryana



Office Name:

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

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

Name of Work -{Code}:

Rough Cost Estimate of Laying RCC pipeline for connecting village pond Kheri(Bani Wala Pond) off taking from km. 6.400/R (amended RD 6.927) of Bassai Disty. (Under Atal Bhujal Yojna) **[IRR/2023-24/68717]**

Estimate Cost:

Rs. 14.06 Lakhs [Adm. Approved Status : Yes, 19/06/2023]

Technical Approval Cost:

Rs. 13.77 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹11,57,536	₹2,19,932	₹13,77,468
Total	₹11,57,536	₹2,19,932	₹13,77,468

Days in which work is likely to be completed:

360 Days

Location of Estimate

Village:KHERI

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: Rough Cost Estimate of Laying RCC pipeline for connecting village pond Kheri(Bani Wala Pond) off taking from km. 6.400/R (amended RD 6.927) of Bassai Disty.(Under Atal Bhujal Yojna)

ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : pipeline work							
Sub-Component :- earthwork excavation for pipeline							
1	HSR	HSR Item 4.16.1.2 -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 : 1.2. Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia HSR Rate(Rs.) 62.00 Through Rate	Metre	889.406	62.00	55143	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for pipeline	1.00	905.256	0.000	0.000	905.256
		d/d for hodies	8.00	1.981	0.000	0.000	-15.850
							889.406
		Sub-Component Total Amount				55143	
Main-Component : pipeline work							
Sub-Component :- earthwork excavation for hodies and others							
2	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	75.817	78.00	5914	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for hodies Avg NSL=792.16, Avg pipe level=787.51 D=792.16-787.51 plus 1.5 plus 0.38 plus 0.5=6.65' $L=(4*2 \text{ plus } 6.65)/2=7.36'$ $B=(3*2 \text{ plus } 6.65)/2=6.33'$	8.00	2.230	1.928	2.027	69.720
		wall at end of pipeline	1.00	1.067	0.610	0.610	0.397
		for khurra wall	1.00	6.096	1.219	0.610	4.532
		khurra in bed	1.00	1.524	1.524	0.503	1.168
							75.817
		Sub-Component Total Amount				5914	

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



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : pipeline work							
Sub-Component :- cement concrete 1:4:8							
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	1.938	2442.00	4733	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		at end of pipeline	1.00	1.067	0.610	0.152	0.099
		for khurra sloping portion	1.00	6.096	1.219	0.152	1.130
		pond bed khurra	1.00	1.524	1.524	0.305	0.709
							1.938
		Sub-Component Total Amount				4733	
Main-Component : pipeline work							
Sub-Component :- cement concrete 1:3:6							
4	HSR	HSR Item 6.1.4 -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: 4. 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) HSR Rate(Rs.) 2911.00 Through Rate	cum	13.958	2911.00	40632	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		around collar joint reach	372.00	0.610	0.762	0.762	131.760
		wall at end of pipeline	1.00	0.914	0.457	0.076	0.032
		side wall of slopping portion	2.00	6.096	0.229	0.076	0.212
		d/d for pipe section	372.00	0.610	0.538	1.000	-122.083
		Hodi	8.00	1.676	1.981	0.152	4.037
							13.958
		Sub-Component Total Amount				40632	

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



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : pipeline work							
Sub-Component :- providing and laying R:C:C pipeline							
5	HSR	HSR Item 21.95.1 -Providing lowering cutting jointing and testing RCC pipe class NP3 as per IS-458-2003 with spigot and socketed joints manufactured with ISI marked sulphate resistance cement as per ISI 12330 with rubber rings ISI marked antitermite as required at site in to trenches for all depths and laying out the same to correct alignment gradients and levels including dressing and trimming and cutting of concrete beds and side of trenches, if required jointing with rubber rings in trenches and jointing with 1:3/2 cement sand mortar and with end dowels filled with 1:3/2 cement sand mortar and finishing the joints at an angle of 45 degree with faces of spigot of socket joints cutting and finishing the cut surface to a uniform finish etc. as fully described in item No. 21.38, item 21.44, item 21.45, and item 21.46 including cartage loading and unloading complete in all respects. the internal diametric of the sewer being: 1. 350 mm HSR Rate(Rs.) 991.00 Through Rate	Per Metre	895.496	991.00	887437	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For pipeline	1.00	905.256	0.000	0.000	905.256
		D/d for hodi	8.00	1.220	0.000	0.000	-9.760
							895.496
		Sub-Component Total Amount				887437	
Main-Component : pipeline work							
Sub-Component :- B/W in 1:4							
6	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	25.890	3693.00	95612	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for hodi long wall	16.00	1.676	0.229	2.667	16.378
		for hodi short wall	16.00	0.914	0.229	2.667	8.932
		wall at end of pipeline	1.00	0.914	0.457	0.991	0.414
		khurra side wall	2.00	6.096	0.229	0.381	1.063
		flat brick in bed khurra	1.00	1.524	1.524	0.198	0.460
		D/d pipeline area in hodi	16.00	0.957	0.387	0.229	-1.357
							25.890
		Sub-Component Total Amount				95612	

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



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : pipeline work							
Sub-Component :- 12 mm cement plaster 1:4							
7	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	163.901	84.00	13768	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>hodi inner side</i>	16.00	2.134	2.667	0.000	91.062
		<i>hodi outer side</i>	16.00	3.048	0.914	0.000	44.574
		<i>hodi top</i>	16.00	2.591	0.229	0.000	9.493
		<i>wall at end of pipeline front side</i>	1.00	0.914	0.610	0.000	0.558
		<i>wall at end of pipeline top side</i>	1.00	2.134	0.457	0.000	0.975
		<i>khurra wall inner side</i>	2.00	6.096	1.219	0.000	14.862
		<i>khurra wall outer side</i>	2.00	6.096	0.457	0.000	5.570
		<i>khurra wall top side</i>	2.00	6.096	0.229	0.000	2.791
		<i>D/d pipe area in hodi $3.14 \times 1.25 \times 1.25 / 4 = 1.23$ or 0.374 sqm</i>	16.00	0.374	1.000	0.000	-5.984
							163.901
		Sub-Component Total Amount				13768	
Main-Component : pipeline work							
Sub-Component :- precast cement concrete for hodi cover							
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	2.080	5081.00	10568	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>hodi cover</i>	8.00	1.676	1.372	0.113	2.080
							2.080
		Sub-Component Total Amount				10568	

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



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : pipeline work							
Sub-Component :- steel reinforcement for rcc work							
9	HSR	HSR Item 6.33.3 -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 3. Cold twisted bars HSR Rate(Rs.) 61.00 Through Rate	Kg.	227.700	61.00	13890	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		in hodi cover (2.07*110)	1.00/227.700	0.000	0.000	0.000	227.700
							227.700
Sub-Component Total Amount						13890	
Main-Component : pipeline work							
Sub-Component :- Channel connection to pipeline							
10	HSR	HSR Item 9.57.3 -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. 3. 150 mm diameter HSR Rate(Rs.) 269.00 Through Rate	Metre	6.096	269.00	1640	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pipe line connection 1st hodi to channel	1.00	6.096	0.000	0.000	6.096
							6.096
Sub-Component Total Amount						1640	
Main-Component : pipeline work							
Sub-Component :- Steps in hodi							
11	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	64.000	298.00	19072	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Steps in hodi	8.00/8.000	0.000	0.000	0.000	64.000
							64.000
Sub-Component Total Amount						19072	

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



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : pipeline work							
Sub-Component :- Cement concrete 1:2:4							
12	HSR	HSR Item 6.1.3 -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: 3. 1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size) HSR Rate(Rs.) 3426.00 Through Rate	cum	2.045	3426.00	7006	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In Village road road restoration 2 No	2.00	5.486	0.914	0.204	2.045
							2.045
Sub-Component Total Amount						7006	
Main-Component : pipeline work							
Sub-Component :- PandL stone boulder							
13	HSR	HSR Item 17.23.1 -Water Bound Macadam Grading - II 1. Water Bound Macadam Grading II (without screenings for low volume roads (undesignated) Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/ vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density complete as per technical clause 404 of MORT&H specifications HSR Rate(Rs.) 1038.00 Through Rate	cum	2.045	1038.00	2123	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In road restoration 02 No	2.00	5.486	0.914	0.204	2.045
							2.045
Sub-Component Total Amount						2123	
Component Total Amount						1157536	
Grand Total						1157536	

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: Rough Cost Estimate of Laying RCC pipeline for connecting village pond Kheri (Bani Wala Pond) off taking from km. 6.400/R (amended RD 6.927) of Bassai Disty. (Under Atal Bhujal Yojna)

Final Work Cost Abstract				
Sr.No	Description	Items Amount (Rs)	Total Charges (Rs.)	Total Amount (Rs.)
	Main-Component : pipeline work			
	Sub-Component: earthwork excavation for pipeline	55,143	10,477	65,620
	Sub-Component: earthwork excavation for hodies and others	5,914	1,124	7,037
	Sub-Component: cement concrete 1:4:8	4,733	899	5,632
	Sub-Component: cement concrete 1:3:6	40,632	7,720	48,352
	Sub-Component: providing and laying R:C:C pipeline	8,87,437	1,68,613	10,56,049
	Sub-Component: B/W in 1:4	95,612	18,166	1,13,778
	Sub-Component: 12 mm cement plaster 1:4	13,768	2,616	16,384
	Sub-Component: precast cement concrete for hodi cover	10,568	2,008	12,576
	Sub-Component: steel reinforcement for rcc work	13,890	2,639	16,529
	Sub-Component: Channel connection to pipeline	1,640	312	1,951
	Sub-Component: Steps in hodi	19,072	3,624	22,696
	Sub-Component: Cement concrete 1:2:4	7,006	1,331	8,337
	Sub-Component: PandL stone boulder	2,123	403	2,526
	Main Component Total	₹11,57,536	₹2,19,932	₹13,77,468
	Grand Total	₹11,57,536	₹2,19,932	₹13,77,468

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

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: Rough Cost Estimate of Laying RCC pipeline for connecting village pond Kheri (Bani Wala Pond) off taking from km. 6.400/R (amended RD 6.927) of Bassai Disty. (Under Atal Bhujal Yojna)

Detailed Estimate Abstract Cost (in Rs.)					
Sr. No.	HSR Amount	NS Amount	Permission from Other Department	All Charges	Total Amount
1.	11,57,536.11	0.00	0.00	219931.86	13,77,467.97
Total :-	11,57,536	0	0	219932	13,77,468

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). pipeline work	11,57,536.11	0.00	11,57,536.11	365
Total :-		11,57,536	0.00	11,57,536	

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.