



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}:

Estimate for Laying RCC pipeline for connecting Village Pond Bawania off taking from Km. 2.700 R/S of Rambass Disty. and Excavation of Pond (Under Atal Bhujal Yojna).
[IRR/2023-24/70739]

Estimate Cost:

Rs. 23.00 Lakhs [Adm. Approved Status : Yes, 19/06/2023]

Technical Approval Cost:

Rs. 22.68 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹19,05,602	₹3,62,064	₹22,67,666
Total	₹19,05,602	₹3,62,064	₹22,67,666

Days in which work is likely to be completed:

135 Days

Location of Estimate

Village:BAWANIA

Assembly Constituency:

MAHENDERGARH

District:

MAHENDRAGARH

Work Category:

Other

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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : Laying RCC pipeline, Earthwork							
Sub-Component :- Laying RCC pipeline and Earthwork							
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	1330.296	62.00	82478	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Trench Length	1.00	1371.600	0.000	0.000	1371.600
		Deduction Hodi length	8.00	5.163	0.000	0.000	-41.304
							1330.296
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	1330.296	3.00	3991	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Extra for Trench Depth	1.00	1371.600	0.000	0.000	1371.600
		Deduction Hodi Length	8.00	5.163	0.000	0.000	-41.304
							1330.296
3	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	127.256	3693.00	469956	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Deduction pipe section in End Wall	1.00	0.239	0.476	0.457	-0.052
		Hodi wall	8.00	7.193	0.579	0.914	30.453
		Hodi wall	8.00	6.706	0.457	1.420	34.814
		Hodi wall	8.00	6.279	0.351	1.524	26.870
		End Wall	1.00	1.372	0.457	1.524	0.956
		Inclined wall	2.00	9.144	0.351	0.381	2.446
		Deduction pipe section in hodi	16.00	0.239	0.476	0.579	-1.054
		Hodi wall	8.00	7.681	0.701	0.762	32.823
							127.256

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
4	HSR	HSR Item 20.62.3 -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. 3. 300 mm i/d HSR Rate(Rs.) 384.00 Through Rate	Per Metre	1361.846	384.00	522949	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Length of pipeline	1.00	1371.600	0.000	0.000	1371.600
		Deduction of Hodi length	8.00	1.219	0.000	0.000	-9.754
							1361.846
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	240.826	84.00	20229	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Deduction pipe section in End Wall	2.00	0.239	0.476	0.000	-0.228
		Hodi inner side walls	8.00	4.877	4.548	0.000	177.445
		Hodi outside walls	8.00	6.280	0.914	0.000	45.919
		End Wall	2.00	1.372	1.524	0.000	4.182
		Inclined wall side walls	4.00	9.144	0.381	0.000	13.935
		Deduction pipe section in hodi	16.00	0.239	0.476	0.000	-1.820
		End Wall front sides	2.00	1.524	0.457	0.000	1.393
							240.826
6	HSR	HSR Item 4.14.1 -Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 1. All kinds of soil. HSR Rate(Rs.) 83.00 Through Rate	cum	5776.637	83.00	479461	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For Pond	1.00	45.720	60.960	3.658	10194.065
		Deduction already Exist pond	1.00	39.624	60.960	1.829	-4417.428
							5776.637
7	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	15.306	2442.00	37377	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Below Hodi	8.00	3.231	3.231	0.152	12.694
		Below End Wall	1.00	1.524	0.610	0.152	0.141

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		Khurra Bed	1.00	1.524	1.524	0.152	0.353
		For Khurra Inclined Portion	1.00	9.144	1.524	0.152	2.118
							15.306
8	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	47.771	2911.00	139061	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Top of Hodi wall	8.00	6.279	0.351	0.076	1.340
		Top of End Wall	1.00	1.372	0.457	0.076	0.048
		Top of khurra Inclined wall	1.00	9.144	1.524	0.152	2.118
		On Top of inclined wall	2.00	9.144	0.351	0.076	0.488
		Hodi Bed	8.00	1.219	1.219	0.076	0.906
		collar joint	549.00	0.533	0.533	0.457	71.414
		D/d of collar joint	549.00	0.239	0.476	0.457	-28.543
							47.771
9	HSR	HSR Item 6.43 -Providing, hoisting and fixing above plinth level up to floor four level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding 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.) 4174.00 Through Rate	cum	2.241	4174.00	9354	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Covers of Hodi	16.00	1.920	0.960	0.076	2.241
							2.241
10	HSR	HSR Item 6.34.3 -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 above plinth level. 3. Cold twisted bars HSR Rate(Rs.) 61.00 Through Rate	Kg.	199.450	61.00	12166	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Steel 0.89times of 1:1.5:3 item	1.00/199.450	0.000	0.000	0.000	199.450
							199.450

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
11	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	9.144	269.00	2460	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pipe for connecting 1st Hodi to Channel	1.00	9.144	0.000	0.000	9.144
							9.144
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, uploading, 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 Steps in 1 Hodi	8.00/8.000	0.000	0.000	0.000	64.000
							64.000
13	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	834.031	78.00	65054	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For Hodies	8.00	5.163	5.163	3.863	823.795
		For End wall	1.00	1.524	0.610	0.610	0.567
		For khurra Inclined portion	1.00	9.144	1.524	0.610	8.501
		For khurra pond bed	1.00	1.524	1.524	0.503	1.168
							834.031
14	HSR	HSR Item 4.31.1 -Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. 1. All kinds of soil HSR Rate(Rs.) 51.00 Through Rate	cum	823.368	51.00	41992	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		extra for hodies	8.00	5.163	5.163	3.861	823.368
							823.368
		Sub-Component Total Amount				1905602	
		Component Total Amount				1905602	
		Grand Total				1905602	

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WORK NAME: Estimate for Laying RCC pipeline for connecting Village Pond Bawania off taking from Km. 2.700 R/S of Rambass Disty. and Excavation of Pond (Under Atal Bhujal Yojna).

Final Work Cost Abstract				
Sr.No	Description	Items Amount (Rs)	Total Charges (Rs.)	Total Amount (Rs.)
	Main-Component : Laying RCC pipeline, Earthwork			
	Sub-Component: Laying RCC pipeline and Earthwork	19,05,602	3,62,064	22,67,666
	Main Component Total	₹19,05,602	₹3,62,064	₹22,67,666
	Grand Total	₹19,05,602	₹3,62,064	₹22,67,666

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

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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.	19,05,601.70	0.00	0.00	362064.33	22,67,666.02
Total :-	19,05,602	0	0	362064	22,67,666

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, Earthwork	19,05,601.70	0.00	19,05,601.70	60
Total :-		19,05,602	0.00	19,05,602	

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