



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 Mundain off taking from Km 4.300/R of Bhojawas disty and Excavation of new pond(Under Atal Bh [IRR/2023-24/70196]

Estimate Cost:

Rs. 25.48 Lakhs [Adm. Approved Status : Yes, 19/06/2023]

Technical Approval Cost:

Rs. 13.84 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹11,63,028	₹2,20,975	₹13,84,003
Total	₹11,63,028	₹2,20,975	₹13,84,003

Days in which work is likely to be completed:

105 Days

Location of Estimate

Village:MUNDAYAN

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 : RCC PIPELINE FOR VILLAGE POND MUNDAIN							
Sub-Component :- RCC PIPELINE							
1	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	3.553	2911.00	10343	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>hodi top long wall</i>	10.00	1.676	0.230	0.050	0.193
		<i>hodi top short wall</i>	10.00	1.220	0.230	0.050	0.140
		<i>hodi bed</i>	5.00	1.220	1.220	0.076	0.566
		<i>top of khurra inclined wall</i>	2.00	9.144	0.351	0.076	0.488
		<i>top of end wall</i>	1.00	1.372	0.457	0.076	0.048
		<i>on khurra inclined portion</i>	1.00	9.144	1.524	0.152	2.118
							3.553
2	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	7745.634	83.00	642888	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>for pond</i>	1.00	41.160	41.160	4.572	7745.634
							7745.634
3	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	126.857	84.00	10656	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>inside wall</i>	20.00	1.220	3.642	0.000	88.865
		<i>outside wall</i>	20.00	1.676	0.609	0.000	20.414
		<i>end wall</i>	2.00	1.372	1.524	0.000	4.182
		<i>inclined khurra wall</i>	4.00	9.144	0.381	0.000	13.935
		<i>deduction pipe section in hodi</i>	10.00	0.161	1.000	0.000	-1.610
		<i>deduction pipe section in end wall</i>	2.00	0.161	1.000	0.000	-0.322
		<i>End wall sides</i>	2.00	1.524	0.457	0.000	1.393
							126.857

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
4	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	650.415	3.00	1951	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for pipeline	1.00	670.000	0.000	0.000	670.000
		deduction of hodi	5.00	3.917	0.000	0.000	-19.585
							650.415
5	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	40.000	298.00	11920	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		step for hodi	1.00/40.000	0.000	0.000	0.000	40.000
							40.000
6	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	6.939	2442.00	16945	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		below hodi	5.00	2.286	2.286	0.152	3.972
		khurra sloping portion	1.00	9.144	1.524	0.152	2.118
		bed of khurra	1.00	1.524	1.524	0.305	0.708
		end wall	1.00	1.524	0.610	0.152	0.141
							6.939
7	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	4.572	200.00	914	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pipe required connecting for 1st hodi to channel	1.00	4.572	0.000	0.000	4.572
							4.572

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
8	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	663.900	384.00	254938	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for pipeline	1.00	670.000	0.000	0.000	670.000
		deduction of hodi	5.00	1.220	0.000	0.000	-6.100
							663.900
9	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.	94.960	61.00	5793	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		steel	1.00/94.960	0.000	0.000	0.000	94.960
							94.960
10	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	650.415	62.00	40326	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for pipeline	1.00	670.000	0.000	0.000	670.000
		deduction of hodi	5.00	3.917	0.000	0.000	-19.585
							650.415
11	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	260.274	78.00	20301	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		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

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		for hodi	5.00	3.916	3.916	3.261	250.038
							260.274
12	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	36.477	3693.00	134710	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		khurra inclined wall	2.00	9.144	0.351	0.381	2.446
		end wall	1.00	1.372	0.457	1.524	0.956
		1st long wall	10.00	2.134	0.457	0.457	4.457
		1st short wall	10.00	1.220	0.457	0.457	2.548
		2nd long wall	10.00	1.920	0.350	1.219	8.192
		2nd short wall	10.00	1.220	0.350	1.219	5.205
		3rd long wall	10.00	1.676	0.228	2.042	7.803
		3rd short wall	10.00	1.220	0.228	2.042	5.680
		deduction pipe section in hodi	10.00	0.161	1.000	0.457	-0.736
		deduction pipe section in end wall	1.00	0.161	1.000	0.457	-0.074
							36.477
13	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	1.067	4174.00	4454	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Hodi cover	10.00	1.676	0.838	0.076	1.067
							1.067
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	135.102	51.00	6890	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		extra for Hodi	5.00	3.916	3.916	1.762	135.102
							135.102
		Sub-Component Total Amount				1163028	
		Component Total Amount				1163028	
		Grand Total				1163028	

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WORK NAME: Estimate for laying RCC pipeline for connecting village pond Mundain off taking from Km 4.300/R of Bhojawas disty and Excavation of new pond(Under Atal Bh

Final Work Cost Abstract				
Sr.No	Description	Items Amount (Rs)	Total Charges (Rs.)	Total Amount (Rs.)
	Main-Component : RCC PIPELINE FOR VILLAGE POND MUNDAIN			
	Sub-Component: RCC PIPELINE	11,63,028	2,20,975	13,84,003
	Main Component Total	₹11,63,028	₹2,20,975	₹13,84,003
	Grand Total	₹11,63,028	₹2,20,975	₹13,84,003

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.	11,63,027.76	0.00	0.00	220975.28	13,84,003.03
Total :-	11,63,028	0	0	220975	13,84,003

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). RCC PIPELINE FOR VILLAGE POND MUNDAIN	11,63,027.76	0.00	11,63,027.76	120
Total :-		11,63,028	0.00	11,63,028	

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