



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 village pond of Lawan off-taking from km. 6.004/L of Lawan Disty. and for village pond of Jant off-taking from km. 6.240/R of Lawan Disty.(Under Atal Bhujal Yojana) **[IRR/2022-23/25869]**

Estimate Cost:

Rs. 33.46 Lakhs [Adm. Approved Status : Yes, 14/10/2022]

Technical Approval Cost:

Rs. 31.53 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹31,21,679	₹31,217	₹31,52,896
Total	₹31,21,679	₹31,217	₹31,52,896

Days in which work is likely to be completed:

540 Days

Location of Estimate

Village:LAWAN

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							
Sub-Component :- RCC PIPELINE,BRICK WORK,CC1:4:8:,1:3:6,EARTHWORK,RCC							
1	HSR	HSR Item 15.6.3 -Brick Masonry Work in Cement Mortar 1:3 in Foundation complete excluding Pointing and Plastering, as per Drawing and Technical Specifications MORT and H clause 1300 3. Cement Mortar 1:4 (1cement :4 sand) HSR Rate(Rs.) 3976.00 Through Rate	cum	76.235	3976.00	303110	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Cement Mortar 1:4 (1cement :4 sand 1st SHORT WALL(for village Lawan pipeline)	6.00	1.220	0.460	1.219	4.105
		Cement Mortar 1:4 (1cement :4 sand 2ND LONG WALL (for village Lawan pipeline)	6.00	1.920	0.350	1.533	6.181
		Cement Mortar 1:4 (1cement :4 sand 2ND SHORT WALL(for village Lawan pipeline)	6.00	1.220	0.350	1.533	3.928
		Cement Mortar 1:4 (1cement :4 sand 1st LONG WALL(for village Lawan pipeline)	6.00	2.130	0.460	1.219	7.166
		Cement Mortar 1:4 (1cement :4 sand 1st SHORT WALL(for village jaat pipeline)	14.00	1.219	0.457	1.219	9.514
		Cement Mortar 1:4 (1cement :4 sand 2ND SHORT WALL(for village jaat pipeline)	14.00	1.219	0.351	1.862	11.142
		Cement Mortar 1:4 (1cement :4 sand 1st LONG WALL(for village jaat pipeline)	14.00	2.134	0.457	1.219	16.650
		Cement Mortar 1:4 (1cement :4 sand 2ND LONG WALL (for village jaat pipeline)	14.00	1.920	0.351	1.862	17.549
							76.235
2	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.) 96.00 Through Rate	Metre	1622.000	96.00	155712	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	1.00	1645.000	0.000	0.000	1645.000
		D/d of earthwork for hodies	10.00	2.300	0.000	0.000	-23.000
							1622.000
3	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	1622.000	3.00	4866	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	1.00	1645.000	0.000	0.000	1645.000
		D/d of earthwork for hodies	10.00	2.300	0.000	0.000	-23.000
							1622.000

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
4	HSR	HSR Item 11.5.3 -12 mm cement plaster of mix : 3. 1:4 (1 cement: 4 fine sand) HSR Rate(Rs.) 94.00 Through Rate	Sqm	220.866	94.00	20761	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		1:4 (1 cement: 4 fine sand) for Lawan village pipeline	3.00	1.220	1.220	0.000	4.465
		1:4 (1 cement: 4 fine sand) INSIDE WALL (for Lawan village pipeline)	12.00	1.220	2.750	0.000	40.260
		1:4 (1 cement: 4 fine sand) OUT SIDE WALL (for Lawan village)	40.00	1.220	0.600	0.000	29.280
		1:4 (1 cement: 4 fine sand) for Jaat village pipeline	14.00	1.220	1.220	0.000	20.838
		1:4 (1 cement: 4 fine sand) INSIDE WALL (for Lawan village pipeline)	28.00	1.220	3.080	0.000	105.213
		1:4 (1 cement: 4 fine sand) OUT SIDE WALL (for jaat village)	28.00	1.219	0.610	0.000	20.810
							220.866
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.) 334.00 Through Rate	Each	70.000	334.00	23380	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		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	1.00/70.000	0.000	0.000	0.000	70.000
							70.000
6	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.) 68.00 Through Rate	Kg.	157.000	68.00	10676	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Cold twisted bars	1.00/157.000	0.000	0.000	0.000	157.000
							157.000

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
7	HSR	HSR Item 20.62.8 -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. 8. 600 mm i/d HSR Rate(Rs.) 1102.00 Through Rate	Per Metre	1632.811	1102.00	1799358	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		600 mm i/d (for lawan village pipeline)	1.00	245.000	0.000	0.000	245.000
		D/d of pipe for hodies (for lawan village pipeline)	3.00	1.219	0.000	0.000	-3.657
		600 mm i/d (for Jaat village pipeline)	1.00	1400.000	0.000	0.000	1400.000
		D/d of pipe for hodies (for jaat village pipeline)	7.00	1.219	0.000	0.000	-8.532
							1632.811
8	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.) 2735.00 Through Rate	cum	15.942	2735.00	43601	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	10.00	2.290	2.290	0.304	15.942
							15.942
9	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.) 3260.00 Through Rate	cum	220.571	3260.00	719061	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	20.00	1.920	0.350	0.048	0.645
		1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	20.00	1.220	0.350	0.048	0.410
		1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)BED	10.00	1.220	1.220	0.076	1.131
		JOINT	675.00	0.910	0.910	0.600	335.381
		D/D PIPE	675.00	3.140	0.092	0.600	-116.996
							220.571

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
10	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.) 4674.00 Through Rate	cum	1.756	4674.00	8208	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for hodi	20.00	1.520	0.760	0.076	1.756
							1.756
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.) 87.00 Through Rate	cum	322.991	87.00	28100	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for village lawan pipeline	3.00	3.508	3.203	2.448	82.518
		for village Jaat pipeline	7.00	3.673	3.368	2.777	240.473
							322.991
12	HSR	HSR Item 6.29.1 -Centering and shuttering including strutting, propping etc. and removal of form work for : 1. Foundations, footings, bases for columns HSR Rate(Rs.) 174.00 Through Rate	Sqm	27.846	174.00	4845	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For hodi PCC for 10 no hodi	40.00	2.290	0.304	0.000	27.846
							27.846
		Sub-Component Total Amount				3121679	
		Component Total Amount				3121679	
		Grand Total				3121679	

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Final Work Cost Abstract				
Sr.No	Description	Items Amount (Rs)	Total Charges (Rs.)	Total Amount (Rs.)
	Main-Component : RCC PIPELINE			
	Sub-Component: RCC PIPELINE,BRICK WORK,CC1:4:8:,1:3:6,EARTHWORK,RCC	31,21,679	31,217	31,52,896
	Main Component Total	₹31,21,679	₹31,217	₹31,52,896
	Grand Total	₹31,21,679	₹31,217	₹31,52,896

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.	31,21,679.27	0.00	0.00	31216.79	31,52,896.06
Total :-	31,21,679	0	0	31217	31,52,896

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	31,21,679.27	0.00	31,21,679.27	180
Total :-		31,21,679	0.00	31,21,679	

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