



Detailed Estimate

Irrigation & Water Resources Department, Haryana



Office Name:

Division : LWS Divn. Chakhi Dadri[L.W.S. Divn. Ch-Dadri]

Circle :LWS Circle Bhiwani[LWS CIRCLE, BHIWANI]

Name of Work -{Code}:

LAYING UNDERGROUND RCC PIPELINE 350 MM DIA
NP3 PIPE TO FILL KIKARWALI POND OF
VILLAGE MANDI KEHAR FROM RD 21800- L OF
REHRODI DISTY [IRR/2023-24/84119]

Estimate Cost:

Rs. 32.66 Lakhs [Adm. Approved Status : Yes, 22/08/2023]

Technical Approval Cost:

Rs. 35.01 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹28,93,162	₹6,07,564	₹35,00,726
Total	₹28,93,162	₹6,07,564	₹35,00,726

Estimate Prepared By:

Name: SATYENDER KUMAR

Designation: Executive Engineer

Days in which work is likely
to be completed:

240 Days

Location of Estimate

Village:MANDHI KEHAR

Assembly Constituency:

BADHRA

District:

CHARKHI DADRI

Work Category:

Other



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Irrigation & Water Resources Department, Haryana



Work Name: LAYING UNDERGROUND RCC PIPELINE 350 MM DIA NP3 PIPE TO FILL KIKARWALI POND OF VILLAGE MANDI KEHAR FROM RD 21800- L OF REHRODI DISTY

ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
Main-Component : 350 mm NP3 pipe line for kikarwali pond							
Sub-Component :- pipeline offtaking from rehrodi disty for kikrwali pond							
1	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	1327.404	3.00	3982	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pipeline length for excavation $4560-(14 \times 14.62)=4355$	1.00	1327.404	0.000	0.000	1327.404
							1327.404
2	HSR	HSR Item 6.35.1 -Steel reinforcement for R.C.C. work ready to use 'cut and bend' rebars of approved make from factory/workshop to construction site including placing in position and binding all complete up to plinth level. 1. Thermo-Mechanically Treated bars of grade Fe-500D or more. HSR Rate(Rs.) 63.00 Through Rate	Kg.	621.740	63.00	39170	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for cover 12 mm dia @ 150 mm cc both direction	14.00/44.410	0.000	0.000	0.000	621.740
							621.740
3	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	280.000	298.00	83440	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		hoddi insider steel bar embedded plastic step	14.00/20.000	0.000	0.000	0.000	280.000
							280.000
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	36.416	2911.00	106007	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		hoddi foundation	14.00	2.591	2.591	0.229	21.516
		for ramp side wall	2.00	9.144	0.914	0.305	5.097
		ramp end walls	2.00	4.572	0.914	0.305	2.549
		ramp slope	1.00	10.058	4.572	0.152	6.990

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.



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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		ingration board bed	1.00	1.524	0.762	0.227	0.264
							36.416
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	1372.819	991.00	1360464	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		350 mm np3 rcc pipe 4560-(14x4)= 4504 ft	1.00	1372.819	0.000	0.000	1372.819
							1372.819
6	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	257.151	84.00	21601	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		hoddi bed	14.00	1.219	1.219	0.000	20.810
		ingration board front and back	2.00	1.829	0.351	0.000	1.284
		ingration board top	1.00	1.524	0.351	0.000	0.534
		ingration board side	2.00	1.524	1.829	0.000	5.575
		hoddi inner side	14.00	4.877	3.353	0.000	228.948
							257.151
7	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	7.845	5081.00	39860	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Precast hodi cover	14.00	1.920	1.920	0.152	7.845
							7.845

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
8	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	877.549	78.00	68449	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Inaugration board	1.00	1.524	0.762	0.762	0.885
		For ramp end wall	2.00	4.572	0.914	1.219	10.188
		For ramp side wall	2.00	9.144	0.914	2.134	35.670
		For hoddi foundation	14.00	4.470	4.470	2.970	830.806
							877.549
9	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.) 155.00 Through Rate	Sqm	463.536	155.00	71848	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For hodi	56.00	2.591	0.229	0.000	33.227
		side wall ramp	4.00	9.144	0.305	0.000	11.156
		front wall ramp	4.00	4.572	0.305	0.000	5.578
		Inaugration board	2.00	2.286	0.229	0.000	1.047
		Granular sub base	2.00	1357.000	0.152	0.000	412.528
							463.536
10	HSR	HSR Item 17.13 -Granular Sub-Base (Mix in place) Construction of granular sub-base by providing Material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with Rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per technical clause 401 of MORT&H technical specifications HSR Rate(Rs.) 1094.00 Through Rate	cum	94.340	1094.00	103208	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Granular sub base	1.00	1356.665	0.457	0.152	94.340
							94.340
11	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	2654.808	86.00	228313	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pipeline length for excavation 4560-(14x 14.62)=4355 0-1.5 mtr depth	1.00	1327.404	0.000	0.000	1327.404

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		pipeline length for excavation $4560 - (14 \times 14.62) = 4355$ 1.5 to 3.00 mtr depth	1.00	1327.404	0.000	0.000	1327.404
							2654.808
12	HSR	HSR Item 7.20.1 -Brick work with common burnt clay 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.) 3877.00 Through Rate	cum	197.787	3877.00	766820	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		ramp end wall inside	1.00	4.572	0.686	1.219	3.823
		ramp end wall outside	1.00	4.572	0.686	1.524	4.778
		1st footing short wall hodi	28.00	1.219	0.573	0.914	17.876
		1st footing long wall hodi	28.00	2.362	0.573	0.914	34.637
		2nd footing long wall hodi	28.00	2.134	0.457	0.914	24.958
		inogration board 1 step	1.00	1.524	0.686	0.457	0.478
		inogration board 2 step	1.00	1.524	0.457	0.229	0.159
		inogration board 3 step	1.00	1.524	0.351	1.829	0.977
		2nd footing short wall hodi	28.00	1.219	0.457	0.914	14.257
		3rd footing long wall hodi	28.00	1.920	0.351	1.524	28.758
		3rd footing short wall hodi	28.00	1.219	0.351	1.524	18.258
		for ramp side wall I step	2.00	9.144	0.823	0.610	9.181
		for ramp side wall intermediate step	2.00	9.144	0.579	1.219	12.908
		for ramp side wall top step (railing)	2.00	9.144	0.457	0.910	7.605
		Outer wing wall	2.00	2.990	0.579	0.914	3.167
		Outer wing wall 2nd step	2.00	2.990	0.457	0.914	2.500
		Ramp slop	1.00	9.022	4.877	0.198	8.717
		Outer bed between wing wall $(29.75 \text{ plus } 15)/2 = 22.38$	1.00	6.821	2.438	0.198	3.295
		toe wall	1.00	9.070	0.351	0.457	1.455
							197.787
		Sub-Component Total Amount				2893162	
		Component Total Amount				2893162	
		Grand Total				2893162	

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WORK NAME: LAYING UNDERGROUND RCC PIPELINE 350 MM DIA NP3 PIPE TO FILL KIKARWALI POND OF VILLAGE MANDI KEHAR FROM RD 21800- L OF REHRODI DISTY

Final Work Cost Abstract				
Sr.No	Description	Items Amount (Rs)	Total Charges (Rs.)	Total Amount (Rs.)
	Main-Component : 350 mm NP3 pipe line for kikarwali pond			
	Sub-Component: pipeline offtaking from rehrodi disty for kikrwali pond	28,93,162	6,07,564	35,00,726
	Main Component Total	₹28,93,162	₹6,07,564	₹35,00,726
	Grand Total	₹28,93,162	₹6,07,564	₹35,00,726

Executive Engineer
IRRIGATION Division
LWS Divn. Chakhi Dadri[L.W.S. Divn. Ch-Dadri]

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