



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 HDPE pipeline for Baba Sadh Temple Pond of Village Akoda connecting from 17.650 /L of Bassai Disty.(Under Atal Bhujal Yojna) [IRR/2023-24/68897]

Estimate Cost:

Rs. 94.68 Lakhs [Adm. Approved Status : Yes, 19/06/2023]

Technical Approval Cost:

Rs. 82.20 Lakhs

Revised Adm Approval Cost:

Rs. 0.00 Lakhs

Item Type	Item Cost	Total Charges	Total Cost
HSR Items	₹18,48,120	₹3,51,143	₹21,99,263
NS Items	₹50,59,217	₹9,61,251	₹60,20,469
Total	₹69,07,338	₹13,12,394	₹82,19,732

Days in which work is likely to be completed:

450 Days

Location of Estimate

Village:Kharkara(Akoda)

Assembly Constituency:

ATELI

District:

MAHENDRAGARH

Work Category:

Other



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Work Name: Estimate for Laying HDPE pipeline for Baba Sadh Temple Pond of Village Akoda connecting from 17.650 /L 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 : laying of HDPE pipeline							
Sub-Component :- Laying of HDPE pipe line							
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	2500.000	62.00	155000	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pipeline excavation	1.00	2500.000	0.000	0.000	2500.000
							2500.000
2	HSR	HSR Item 20.15.1 -Providing and fixing C.I. Kinetic air valves conforming to and marked with IS: 14845 including carriage, loading, unloading stacking, handling, re-handling etc., drilling, tapping, screwing in valves connections complete in all respects to the satisfaction of Engineer-in- Charge. 1. 80 mm i/d HSR Rate(Rs.) 2873.00 Through Rate	Each	3.000	2873.00	8619	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In hdpe pipeline 1 per km	1.00/3.000	0.000	0.000	0.000	3.000
							3.000
3	HSR	HSR Item 22.159.1 -Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) : 1. 100 mm dia C.I. Double Flanged Pipe HSR Rate(Rs.) 1241.00 Through Rate	Metre	9.000	1241.00	11169	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For air valve 3 no x 3 mtr	1.00	9.000	0.000	0.000	9.000
							9.000
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	7.739	2911.00	22528	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		PCC in bed of hodi	2.00	2.438	2.438	0.152	1.807
		Thrust block	2.00	1.500	1.200	0.750	2.700
		Road crossing	1.00	6.000	1.500	0.300	2.700
		in bed of toe wall pond bed khurra	1.00	3.048	0.762	0.229	0.532
							7.739

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
5	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-II) : 4 graded stone aggregate 40 mm nominal size) HSR Rate(Rs.) 3426.00 Through Rate	cum	0.223	3426.00	764	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>In bed of hodi</i>	2.00	1.220	1.220	0.075	0.223
							0.223
6	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	0.574	4174.00	2396	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>Hodi slab</i>	2.00	1.677	1.677	0.102	0.574
							0.574
7	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	8.316	3693.00	30711	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>Hodi Long Wall S1</i>	4.00	2.133	0.457	0.457	1.782
		<i>Hodi Long Wall S2</i>	4.00	1.921	0.351	0.610	1.645
		<i>Hodi Long Wall S3</i>	4.00	1.677	0.229	0.915	1.406
		<i>Hodi Short Wall S1</i>	4.00	1.219	0.457	0.457	1.018
		<i>Hodi Short Wall S2</i>	4.00	1.219	0.351	0.610	1.044
		<i>Hodi Short Wall S3</i>	4.00	1.219	0.229	0.915	1.022
		<i>D/d outer dia of pipe</i>	4.00	1.000	0.457	0.049	-0.090
		<i>Toe wall of Pond bed khurra</i>	1.00	3.048	0.351	0.457	0.489
							8.316
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	16.643	78.00	1298	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>in hodi excavation</i>	2.00	2.133	2.133	1.829	16.643
							16.643

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9	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	25.332	84.00	2128	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>hodi inner side</i>	8.00	1.219	1.906	0.000	18.587
		<i>hodi outer side</i>	8.00	1.677	0.305	0.000	4.092
		<i>Hodi top 1.677 plus 1.219/2</i>	8.00	1.448	0.229	0.000	2.653
							25.332
10	HSR	HSR Item 20.69.1 -Providing, lowering, laying in trenches, aligning, fixing in position and jointing at all level/depths cast iron (CI) standard specials plain /flanged/ socketed confirming to IS13382 with rubber ring, nut bolts and rubber sheet such as tees, bends, tapers, caps etc. complete including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer. 1. Up to 300mm dia HSR Rate(Rs.) 48.00 Through Rate	Per Kg.	1000.000	48.00	48000	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>Reducer 250 mm x 125 mm @ 58kg</i>	8.00/58.000	0.000	0.000	0.000	464.000
		<i>Tee for air valve 250mm x 100 mm @ 96/kg</i>	3.00/96.000	0.000	0.000	0.000	288.000
		<i>flange socket 250 mm @ 62 kg</i>	4.00/62.000	0.000	0.000	0.000	248.000
							1000.000
11	HSR	HSR Item 22.162.5.1 -Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) : 5.1. 250 mm diameter Class I HSR Rate(Rs.) 18916.00 Through Rate	Each	4.000	18916.00	75664	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>sluice valve</i>	1.00/4.000	0.000	0.000	0.000	4.000
							4.000
12	HSR	HSR Item 20.11.5 -Providing and fixing cast iron double flanged swing check type reflux (non return) valves PN-1.6 marked with IS:5312 including nuts and bolts marked with IS:1363, rubber sheet marked with IS:638 etc., carriage loading, unloading, stacking, handling, re-handling etc. Complete in all respect to the satisfaction of Engineer-in-charge 5. 250 mm i/d HSR Rate(Rs.) 14304.00 Through Rate	Each	4.000	14304.00	57216	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>in hdpe pipe and motor fitting</i>	1.00/4.000	0.000	0.000	0.000	4.000
							4.000

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
13	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	8.000	298.00	2384	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>in hodi</i>	2.00/4.000	0.000	0.000	0.000	8.000
							8.000
14	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.	38.092	61.00	2324	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>in hodi cover 89*0.428</i>	1.00/38.092	0.000	0.000	0.000	38.092
							38.092
15	NS	NS Item _Providing, lowering, laying, aligning, fixing in position and jointing at all level/ depths ISI marked HDPE pipe of 250 mm dia PE-80 grade and PN-4 as per IS 4984 in trenches including cost of HDPE Specials, labour, sectional hydro testing (including the cost and conveyance of water to site for testing) and commissioning as per Technical Specifications complete in all respects as per direction of Engineer incharge	Metre	2500.000	1582.00	3955000	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>Laying of 250 mm outer dia hdpe pipe</i>	1.00	2500.000	0.000	0.000	2500.000
							2500.000
		Sub-Component Total Amount				4375201	
		Main-Component : laying of HDPE pipeline					
		Sub-Component :- Mechanical component					
16	NS	NS Item _Supplying erection and commissioning of LT 3.5 core cable aluminum conductor 50 sq mm XLPE Insulated Armored cable from transformer to panel by providing suitable size thimble to both ends-	Metre	200.000	710.00	142000	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>transformer to panel</i>	1.00	200.000	0.000	0.000	200.000
							200.000

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
17	NS	NS Item _S/E/C of LT 3.5 core cable aluminium conductor 35 sq mm XLPE insulated Armoured cable by providing suitable size thimble to both ends as per relevant IS code	Metre	30.000	530.00	15900	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		panel to motor	2.00	15.000	0.000	0.000	30.000
							30.000
18	HSR	HSR Item 20.76.4 -Design, Supply and erection of transformer of standard make Required 25 KVA 11/0.433 KVA rating outdoor type 11 KVA V.C.B, panel, G.O. switch, H. Pole , H.T metering panel, APFC panel, battery charges, 11 KVA substation, entire cable network from G.O. switch to H.T metering equipment and from H.T metering to Transformer. From transformer to main to L.T, panel earthing, safety equipment, fenced enclosure for transformer, and any other contingent thereto complete in all respect as per approved make and directions of Engineer-in-charge as per respective capacity. 4. 63 KVA HSR Rate(Rs.) 216596.00 Through Rate	Each	1.000	216596.00	216596	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For electricity supply to Pump chamber	1.00/1.000	0.000	0.000	0.000	1.000
							1.000
19	HSR	HSR Item 24.3.2.1 -HT CABLE 2.1. Laying and erection of XLPE II or 33 kv HT aluminium conductor armoured cable ISI mark laid on surface/pipe/cable tray with all labour and material as required up to 120 sqmm 3 core XLPE Cable HSR Rate(Rs.) 78.00 Through Rate	Metre	200.000	78.00	15600	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		ht line to transformer	1.00	200.000	0.000	0.000	200.000
							200.000
20	HSR	HSR Item 24.2.5.2 -LT CABLE 5.2. Laying and fixing of cable on surface/ cable tray etc as required:- 16 Sq mm to 35 sqmm 2 to 4 Core HSR Rate(Rs.) 21.00 Through Rate	Metre	30.000	21.00	630	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		panel to motor	2.00	15.000	0.000	0.000	30.000
							30.000
21	NS	NS Item _P and F fully automatic oil immersed MCCB 200 A control panel with preventer	Nos.	2.000	27115.00	54230	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For motor 1W plus 1SB	1.00/2.000	0.000	0.000	0.000	2.000
							2.000

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
22	NS	NS Item _PVC flexible spiral fuse reinforced heliflex hose pipe 6` dia 1st quality working pressure 4.5 kg/cm ² plus -5% factor of safety 4:1 and working temp 50 C to 60 C and weight/mtr is 5.5 kg/mtr plus -7%	Metre	30.000	1093.12	32794	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		for suction pipe 2 no motor	2.00	15.000	0.000	0.000	30.000
							30.000
23	NS	NS Item _CI hose nipple both end flanged 6` H/duty	Nos.	8.000	900.00	7200	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For suction pipe fitting	2.00/4.000	0.000	0.000	0.000	8.000
							8.000
24	NS	NS Item _CI bend 6` x 6` both end flanged	Nos.	4.000	2100.00	8400	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For suction pipe fitting	2.00/2.000	0.000	0.000	0.000	4.000
							4.000
25	NS	NS Item _Supplying, erection, testing and commissioning of Horizontal motor pumping set for clear water having head 35.00 m as per the indicated requirements of discharge in 3000 LPM and power capacity in 45 BHP Make: KSB, CRI, Kirlosker, Crompton Greeve, Lubi)	Nos.	2.000	409950.00	819900	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		For lifting water 1 W plus 1 SB	1.00/2.000	0.000	0.000	0.000	2.000
							2.000
		Sub-Component Total Amount				1313250	
		Main-Component : laying of HDPE pipeline					
		Sub-Component :- Suction well and pump chamber					
26	HSR	HSR Item <u>6.22.2.2</u> -Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. 2.2. All works up to Plinth Level : M-15 grade plain cement concrete. (cement content considered @ 240 kg/cum) HSR Rate(Rs.) 3772.00 Through Rate	cum	19.823	3772.00	74772	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In fdn suction well	1.00	5.791	5.182	0.229	6.860

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		pond side wall fn	1.00	3.048	0.884	0.229	0.616
		IN Side slope pond side	1.00	11.278	3.048	0.152	5.239
		In pipe joint 200/8.20=25 no	25.00	0.762	0.762	0.610	8.849
		D/d pipe area = $3.14 \times 1.25 \times 1.25 / 4 = 1.23$	25.00	0.375	0.610	0.305	-1.741
							19.823
27	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	1247.138	78.00	97277	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Suction well L = (19 plus 19 plus 21.25)/2, B=(17 plus 17 plus 21.25)/2	1.00	9.030	8.420	6.477	492.463
		for pipe pond to well B = (2.5 plus 2.5 plus 14)/2	1.00	60.960	2.896	4.267	753.228
		Pipe fdn pond side	1.00	3.048	2.073	0.229	1.447
							1247.138
28	HSR	HSR Item 6.25.1 -Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. 1. All works up to plinth level HSR Rate(Rs.) 4464.00 Through Rate	cum	49.612	4464.00	221468	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Raft Suction well	1.00	5.486	4.877	0.457	12.233
		Wall 1st step LW	2.00	4.420	0.381	3.048	10.265
		Wall 2nd step LW	2.00	4.267	0.305	3.048	7.937
		Wall 1st step SW	2.00	3.048	0.381	3.048	7.079
		Wall 2nd step SW	2.00	3.048	0.305	3.048	5.669
		Slab suction well	1.00	4.267	3.658	0.305	4.757
		Lintel beam LW plus SW	2.00	6.706	0.229	0.200	0.614
		Lintel sun shade	4.00	1.829	0.610	0.162	0.722
		Motor fdn	2.00	1.219	0.914	0.152	0.340
		D/d pipe section in wall of suction wall	1.00	0.305	0.042	0.305	-0.004
							49.612

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Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
29	HSR	HSR Item 7.22.1 -Brick work with common burnt clay non-modular bricks of class designation 10.5 in superstructure above plinth level up to floor IV level in all shapes and sizes in : 1. Cement mortar 1:4 (1 cement : 4 coarse sand) HSR Rate(Rs.) 3877.00 Through Rate	cum	11.416	3877.00	44260	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Chamber LW	2.00	3.658	0.229	3.581	5.989
		Chamber SW	2.00	3.048	0.229	3.581	4.991
		Inside Chamber partition wall	1.00	3.048	0.229	0.762	0.531
		D/d door	1.00	1.219	0.229	2.057	-0.573
		D/d window	3.00	1.219	0.229	1.219	-1.019
		Parapit LW	2.00	4.115	0.229	0.457	0.860
		Parapit SW	2.00	3.048	0.229	0.457	0.637
							11.416
30	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	0.513	3693.00	1895	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Ramp SW	1.00	1.829	0.229	0.229	0.096
		Ramp LW	2.00	3.048	0.229	0.299	0.417
							0.513
31	HSR	HSR Item 6.33.6 -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 6. Thermo-Mechanically Treated bars of grade Fe-500D or more. HSR Rate(Rs.) 61.00 Through Rate	Kg.	5838.830	61.00	356169	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		As per BBS attached	1.00 /5838.830	0.000	0.000	0.000	5838.830
							5838.830
32	HSR	HSR Item 13.6.1 -Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. 1. Using M.S. angels 40x40x6 mm for diagonal braces HSR Rate(Rs.) 2738.00 Through Rate	Sqm	2.508	2738.00	6867	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Door	1.00	1.219	2.057	0.000	2.508
							2.508

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ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
33	HSR	HSR Item 13.9.1 -Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3 mm and nuts and bolts complete. 1. Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides HSR Rate(Rs.) 506.00 Through Rate	Sqm	2.457	506.00	1243	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In window	3.00	0.905	0.905	0.000	2.457
							2.457
34	HSR	HSR Item 13.10.2 -Providing and fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 2. 5.5 mm thick glass panes HSR Rate(Rs.) 794.00 Through Rate	Sqm	0.819	794.00	650	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In window	1.00	0.905	0.905	0.000	0.819
							0.819
35	HSR	HSR Item 13.3.3.1 -Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 2.0 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 2.00 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: 3.1. Profile E Fixing with adjustable lugs with split end tail to each jamb HSR Rate(Rs.) 388.00 Through Rate	Metre	25.603	388.00	9934	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In widow	3.00	8.534	0.000	0.000	25.603
							25.603
36	HSR	HSR Item 13.21.2 -Supply and fixing Windows frames (Chowkhats) including mullions consisting frame fabricated from sheet roll formed out of 1.2mm thick galvanized sheet as per IS:277 (Base steel as per IS 513) with zinc of 120 gm/sqm and Powder coated with pure Polyester powder up to 50 microns (as per approved colour), 3 Nos. 100mm butt - hinges 2mm thick, 6 Nos. 1.2mm thick CRCA electroplated stiffner, 6 Nos. M.S hold fast with split and tail welded to stiffner plate 200mm long, receiver for aldrop, weld less corner assembly with brackets and screws, M.S tie rod 50mm x 25mm to be fixed at bottom finished with powder coated total thickness of coating 0.6mm of approved shade, fixed in position including the cost of cement concrete for 1:2:4 for fixing lugs complete in all respects as per drawing, design, specification and entire satisfaction of Engineer-in-charge. 2. Door Frame of size 125mm x 60mm with 37mm wide double rebate for 35mm door shutter HSR Rate(Rs.) 1240.00 Through Rate	Metre	24.384	1240.00	30236	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In window =3*4 plus 2*4=20	4.00	6.096	0.000	0.000	24.384
							24.384

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
37	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	18.000	298.00	5364	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In suction well	1.00/18.000	0.000	0.000	0.000	18.000
							18.000
38	HSR	HSR Item 21.93.1 -Providing and fixing SFRC MANHOLE COVERS AND FRAMES MARKED WITH IS: 12592 including setting the same to correct lines and levels in 1:3 cement sand mortar over manhole including carriage loading unloading stacking handling re-handling etc. complete in all respects to the satisfaction to the Engineer-in-charge. 1. Type:- Extra Heavy Duty Set (EHD-35) 560MM Clear Opening HSR Rate(Rs.) 1155.00 Through Rate	Each	2.000	1155.00	2310	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In suction well	1.00/2.000	0.000	0.000	0.000	2.000
							2.000
39	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	60.960	991.00	60411	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pond to suction well	1.00	60.960	0.000	0.000	60.960
							60.960
40	HSR	HSR Item 11.67.1 -Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 1. Water thinnable cement primer HSR Rate(Rs.) 22.00 Through Rate	Sqm	108.425	22.00	2385	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pump chamber inner side LW plus SW	2.00	6.706	3.581	0.000	48.031
		Pump chamber outer side LW plus SW	2.00	7.620	4.191	0.000	63.871

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
		D/d window	6.00	1.219	1.219	0.000	-8.914
		D/d door	2.00	1.219	2.057	0.000	-5.015
		Parapit	2.00	7.620	0.686	0.000	10.452
							108.425
41	HSR	HSR Item 11.74.2 -Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. 2. Two coats HSR Rate(Rs.) 38.00 Through Rate	Sqm	41.062	38.00	1560	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pump chamber inner side LW plus SW	2.00	6.706	3.581	0.000	48.029
		D/d of window	3.00	1.219	1.219	0.000	-4.459
		D/d of door	1.00	1.219	2.057	0.000	-2.508
							41.062
42	HSR	HSR Item 11.95.1 -Finishing walls with Acrylic Smooth exterior paint of required shade : 1. New work (Two or more coat applied @ 1.67 litre/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) HSR Rate(Rs.) 88.00 Through Rate	Sqm	67.356	88.00	5927	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pump chamber outer side	2.00	7.620	4.191	0.000	63.871
		D/d door	1.00	1.219	2.057	0.000	-2.508
		D/d window	3.00	1.219	1.219	0.000	-4.459
		Parapit top	2.00	7.620	0.686	0.000	10.452
							67.356
43	HSR	HSR Item 30.28.1 -Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : 1. One or more coats on old work HSR Rate(Rs.) 38.00 Through Rate	Sqm	6.967	38.00	265	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In window	3.00	1.219	1.219	0.000	4.459
		door	1.00	1.219	2.057	0.000	2.508
							6.967
44	HSR	HSR Item 23.4.1.1 -COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 1.1. Wiring for Light/Fan/call bell point with modular type switch/socket and GI box, Modular type face plate etc in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe. Group A HSR Rate(Rs.) 520.00 Through Rate	Each	10.000	520.00	5200	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pump chamber room	1.00/10.000	0.000	0.000	0.000	10.000
							10.000

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
45	HSR	HSR Item 23.4.4.1 -COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUIT (SURFACE/RECESS) 4.1. Wiring in PVC conduit system for 3-pin 5amp. Plug point by using 2 no 1.5 sqmm FRLS copper wire and 1 no 1.5 Sqmm FRLS copper wire , including providing 1 no 5/6 Amp 3/5 pin Modular type socket and 1 no 5/6 Amp Modular type switch required GI Box ,modular face plate etc complete as required Group A HSR Rate(Rs.) 725.00 Through Rate	Each	3.000	725.00	2175	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>pump chamber room</i>	1.00/3.000	0.000	0.000	0.000	3.000
							3.000
46	HSR	HSR Item 23.8.11.1 -FITTING AND ACCESSORIES 11.1. Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect. 5 amp 1 way switch HSR Rate(Rs.) 41.00 Through Rate	Each	10.000	41.00	410	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>pump chamber room</i>	1.00/10.000	0.000	0.000	0.000	10.000
							10.000
47	HSR	HSR Item 23.8.3.3 -FITTING AND ACCESSORIES 3.3. Supply and erection of suitable MS/GI Box covered with 5 mm thick Bakelite sheet as below 180 mm X 100 mm X 60 mm deep M.S. Box HSR Rate(Rs.) 112.00 Through Rate	Each	2.000	112.00	224	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>pump chamber room</i>	1.00/2.000	0.000	0.000	0.000	2.000
							2.000
48	HSR	HSR Item 23.7.6.1 -PVC CONDUIT PIPE ONLY (SURFACE OR RECESSED) FOR ELECTRICAL POINTS 6.1. Supply and erection of PVC CONDUIT ISI marked (Medium) recessed in wall/ceiling etc. including the cost of PVC bends, inspection boxes, iron hooks and cement concrete etc. complete in all respect up to the entire satisfaction of Engineer-in-Charge of work. PVC pipe of 20 mm dia. HSR Rate(Rs.) 26.00 Through Rate	Metre	30.000	26.00	780	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>pump chamber room</i>	1.00	30.000	0.000	0.000	30.000
							30.000
49	HSR	HSR Item 23.22.5.1 -MCCB ,DISTRIBUTION BOARDS, MCB`s, RCCB`s, CHANGE OVER etc. 5.1. Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:- 6 amp. to 32 amp Single Pole HSR Rate(Rs.) 145.00 Through Rate	Each	2.000	145.00	290	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		<i>pump chamber room</i>	1.00/2.000	0.000	0.000	0.000	2.000
							2.000

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
50	HSR	HSR Item 13.28 -Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. HSR Rate(Rs.) 75.00 Through Rate	Kg.	382.590	75.00	28694	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Channel 70x40 mm = 8*13.5/3.28084*6.8=	1.00/223.850	0.000	0.000	0.000	223.850
		Channel 40x32 mm =7*15.5/3.28084*4.80	1.00/158.740	0.000	0.000	0.000	158.740
							382.590
51	HSR	HSR Item 11.8.1 -12 mm cement plaster of mix : 1. 1:4 (1 cement: 4 coarse sand) HSR Rate(Rs.) 82.00 Through Rate	Sqm	108.425	82.00	8891	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		pump chamber room inner side LW plus SW	2.00	6.706	3.581	0.000	48.031
		pump chamber room outer side LW plus SW	2.00	7.620	4.191	0.000	63.871
		D/d door	2.00	1.219	2.057	0.000	-5.015
		D/d window	6.00	1.219	1.219	0.000	-8.914
		Parapit top	2.00	7.620	0.686	0.000	10.452
							108.425
52	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	14.493	155.00	2246	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Suction well pcc LS plus SS	2.00	10.973	0.229	0.000	5.017
		Raft LS plus SS	2.00	10.363	0.457	0.000	9.476
							14.493
53	HSR	HSR Item 6.29.2 -Centering and shuttering including strutting, propping etc. and removal of form work for : 2. Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc. HSR Rate(Rs.) 282.00 Through Rate	Sqm	698.631	282.00	197014	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Wall both side 4*2=8	8.00	14.326	6.096	0.000	698.631
							698.631
54	HSR	HSR Item 6.29.3 -Centering and shuttering including strutting, propping etc. and removal of form work for : 3. Columns, piers, abutments, pillars, posts and struts HSR Rate(Rs.) 261.00 Through Rate	Sqm	13.099	261.00	3419	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Column	16.00	0.229	3.581	0.000	13.099
							13.099

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



ITEMS							
Sr. No.	Type	Category/Description / Item Size	Unit	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)	
55	HSR	HSR Item 6.30.3 -Centering and shuttering including strutting, propping etc. and removal of form for 3. Suspended floors, roofs, landings, balconies and access platform HSR Rate(Rs.) 208.00 Through Rate	Sqm	22.006	208.00	4577	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Slab	1.00	3.658	3.048	0.000	11.148
		Slab sides	2.00	7.925	0.305	0.000	4.831
		Lintel sun shade	3.00	1.829	0.610	0.000	3.345
		Lintel beam 1	2.00	3.658	0.200	0.000	1.463
		Lintel beam 1	2.00	3.048	0.200	0.000	1.219
							22.006
56	HSR	HSR Item 10.8 -Providing and laying of conglomerate floor 40mm thick cement concrete topping 1:2:4 HSR Rate(Rs.) 181.00 Through Rate	Sqm	11.148	181.00	2018	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pump chamber	1.00	3.658	3.048	0.000	11.148
							11.148
57	HSR	HSR Item 9.22.2 -Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 2. 0.80 mm thick with zinc coating not less than 275 gm/m ² HSR Rate(Rs.) 976.00 Through Rate	Sqm	16.559	976.00	16162	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		In roof	1.00	4.724	3.505	0.000	16.559
							16.559
58	NS	NS Item _Brick Work in C:M 1:3	cum	6.090	3907.00	23794	
		Description	No./Qty	Length	Breadth	Depth	Total Qty
		Pond side wall 1st step	1.00	3.048	0.701	0.457	0.976
		Pond side wall 2nd step	1.00	3.048	0.457	0.457	0.637
		Pond side wall 3rd step	1.00	3.048	0.351	0.457	0.489
		Brick pitching	1.00	11.278	3.048	0.116	3.988
							6.090
		Sub-Component Total Amount				1218887	
		Component Total Amount				6907338	
		Grand Total				6907338	

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Detailed Estimate
Irrigation & Water Resources Department, Haryana



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Detailed Estimate

Irrigation & Water Resources Department, Haryana



WORK NAME: Estimate for Laying HDPE pipeline for Baba Sadh Temple Pond of Village Akoda connecting from 17.650 /L 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 : laying of HDPE pipeline			
	Sub-Component: Laying of HDPE pipe line	43,75,201	8,31,288	52,06,489
	Sub-Component: Mechanical component	13,13,250	2,49,517	15,62,767
	Sub-Component: Suction well and pump chamber	12,18,887	2,31,589	14,50,476
	Main Component Total	₹69,07,338	₹13,12,394	₹82,19,732
	Grand Total	₹69,07,338	₹13,12,394	₹82,19,732

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

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Detailed Estimate

Irrigation & Water Resources Department, Haryana



WORK NAME: Estimate for Laying HDPE pipeline for Baba Sadh Temple Pond of Village Akoda connecting from 17.650 /L 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.	18,48,120.43	5059217.23	0.00	1312394.15	82,19,731.81
Total :-	18,48,120	5059217	0	1312394	82,19,732

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 of HDPE pipeline	18,48,120.43	5059217.23	69,07,337.66	365
Total :-		18,48,120	5059217.23	69,07,338	

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