

M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Actual Strata Chart of RAJAPUR KALAN REORGANISATION WSS, BLOCK- KASIMABAD, ZONE 1, GRAM PANCHAYAT - RAJAPUR TW 1

Under Jal Jivan Mission, District- Ghazipur (U.P.)

PHYSICAL STRATA				Drilling and assembly 300 mm 600MM	MS Ring Collar length	BGL including MS Ring Collar
S.No	BGL in meter		Formation	AGL	MS Ring Collar length	BGL including MS Ring Collar
	From	to				
1	0	6	Clay	0.50	0	5.510
2	6	12	Clay Kankad			11.510
3	12	24	Kankad			17.520
4	24	28	Kankad with Very Fine Sand			23.520
5	28	36	Kankad			29.540
6	36	42	Very Fine Sand			35.550
7	42	48	Clay Kankad			37.250
8	48	54	Very Fine Sand			39.750
9	54	98	Clay Kankad			45.750
10	98	166	Kankad			48.500
11	166	190	Fine Sand			51.500
12	190	198	Clay Kankad			57.510
						62.000

Logging

Date-05/06/2023

S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	24	28	4	Good
2	37	40	3	Good
3	48	52	4	Moderate
4	190	194	4	Moderate

Note-

1. Fine bands of kankar are intermixed with almost all the zones.
2. Quality of ground water is deteriorating marginal to saline in between 88.0 to 184 m bgl.
3. Predominated clay is present in depth range 184.0 to 189.0 to bgl.
4. Please ensure pre-monsoon water level before lower the well assembly

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	550.000	LPM		
2	Cear Depth of bore 600mm	0	Mbgl	62.000	Mbgl
3	Cear Depth of bore 500mm	65	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	200	Mbgl	198.000	Mbgl
5	Plane pipe 300MM	0	m	52.510	m
6	Plane pipe 200MM	60	m	0.000	m
7	Plane pipe 150MM	96	m	0.000	m
8	Slotted pipe 300MM	0	m	5.500	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	24	m	0.000	m
11	Date of lowering			10/6/2023	

(.....)
Company Repre.
M/S VSAIPPL-SMC
JV, Ghazipur (U.P)

Jal
(.....)
TPIA
Medhaj Techno Concept Pvt. Ltd., Ghazipur

A.S.
(A.Srivastava)
Junior Engineer

N.K.
(Nitish Kumar)
Assistant Engineer

Adarsh
(Adarsh Verma)
Exe. Engineer

Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi

GEO INSTRUMENTS & TECHNIC'S

(A Division of Geophysical Exploration and Instrumentation)

Sales & Service Dealer : Uptron Borehole logging system, UPTRON INDIA LTD., LUCKNOW

Ref:GIT:UP: PJM:23-24:LS: 668
 Dated: 06-06-2023

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Rajapur Kalan *Zone ①*
 Block: Kasimabad
 District: Ghazipur
 State: Uttar Pradesh
 Date of Logging: 05-06-2023
 Drilling depth: 208.0 m bgl
 Logging Depth: 198.0 m bgl
 Rm - 11.0 Qm Rw - 10.0 Qm

Borehole Drilled by: M/s VSAIPPL-SCL (JV), Ghazipur, U. P., India.

Based on the interpretation of Self Potential (SP), Short Normal (N-16"), Long Normal (N-64") and Lateral 6' geophysical logs following informations/granular zones have been deciphered with respect to Salinity only:

Sl. No.	Depth Range (m bgl)	Thickness (meters)	Remarks (Quality of aquifer water)
1.	24 - 28	04	Good
2.	37 - 40	03 - 2.5	Good
3.	48 - 52	04 - 3	Moderate
4.	190 - 194	04	Moderate

Note: 1. Fine bands of kankar are intermixed with almost all the zones.

2. Quality of ground water is deteriorating marginal to saline in between 88.0 to 184.0 m bgl.

3. Predominated clay is present in depth range 184.0 to 189.0 to m bgl.

4. Please ensure pre-monsoon water level before lower the well assembly.

Verified as per logs provided

*G. Sh
07/06/23*

For Geo Instruments & Technic's

S. Shukla
 (S. Shukla)

जल जीवन मिशन कार्यक्रम अन्तर्गत पेयजल योजना ब्लॉक- कासिमाबाद, जोन 1, ग्राम पंचायत - राजापुर TW1. जनपद गाजीपुर में 200x150 एम0एम0 व्यास साइज के 200/180 मीटर गहरे नलकूप का निर्माण किया जाना है एवं उक्त नलकूप से 550 ली०प्र०मि० श्राव लिया जाना प्रस्तावित है।

अनुबन्ध सं०- 478/ED/PHASE 2/2022-23/X दिनांक 27.02.2023 के माध्यम से M/s VSAIPPL-SMC IV, District-Ghazipur द्वारा नलकूप निर्माण कार्य सम्पादित कराया जा रहा है। दिनांक 05.06.2023 को नलकूप के बोर की इलेक्ट्रिक लार्गिंग करायी गयी, जिसका विवरण निम्नानुसार है :-

Date- 05/06/2023					S.No.	BGL in meter		Formation
S.N.	Depth Range		Thickness	Remark		From	to	
		From			to			
1	24	28	4	Good	1	0	6	Clay
2	37	40	3	Good	2	6	12	Clay Kankad
3	48	52	4	Moderate	3	12	24	Kankad
4	190	194	4	Moderate	4	24	28	Kankad with Very Fine Sand
Note- 1. Fine bands of kankar are intermixed with almost all the zones. 2. Quality of ground water is deteriorating marginal to saline in between 88.0 to 184 m bgl. 3. Predominated clay is present in depth range 184.0 to 189.0 to bgl. 4. Please ensure pre-monsoon water level before lower the well assembly					5	28	36	Kankad
					6	36	42	Very Fine Sand
					7	42	48	Clay Kankad
					8	48	54	Very Fine Sand
					9	54	98	Clay Kankad
					10	98	166	Kankad
					11	166	190	Fine Sand
					12	190	198	Clay Kankad

अनुबन्ध में उपरोक्त नलकूप से 550 ली०प्र०मि० श्राव प्राप्त करने हेतु Entrance Velocity 0.015m/sec पर 24 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लार्गिंग के उपरान्त प्राप्त स्ट्रूटा के अनुसार अधिकतम 5.50 मीटर ही स्लाटेड पाइप डाली जा सकती है।

Physically encountered Strata एवं लार्गिंग रिपोर्ट का निरीक्षण करने पर पाया गया कि उक्त के अन्तर्गत Aquifer Very Fine sand का है एवं लार्गिंग रिपोर्ट के अनुसार केवल 5.50 मीटर स्लाटेड पाइप ही लोवर की जा सकती है, जिससे 550 ली०प्र०मि० श्राव प्राप्त किया जाना सम्भव नहीं है। ऐसी स्थिति में 150 मि०मी० स्लाटेड पाइप के स्थान पर 300 मि०मी० व्यास साइज की स्लाटेड पाइप का उपयोग किया जाय तो 5.50 मीटर की लम्बाई में Entrance area को बढ़ाकर आवश्यक वांछित श्राव प्राप्त करने का प्रयास किया जा सकता है। उल्लेखनीय है यदि 5.50 मीटर लम्बाई में 150 मि०मी० के स्थान पर 300 मि०मी० व्यास साइज की स्लाटेड पाइप का उपयोग किया जाय तो Opening entrance area 150 मि०मी० व्यास साइज के 11.00 मीटर पाइप के बराबर आयेगी, जो Aquifer structure के दृष्टिगत उचित होगा एवं वास्तविक श्राव यील्ड टेस्ट के उपरान्त डिप्रेसन की मानकों के गणना के दृष्टिगत स्पष्ट हो पायेगा। अनुबन्ध में निहित प्राविधान के अनुसार श्राव की प्रतिपूर्ति फर्म की स्वयं का उत्तर दायित्व में है, अतएव श्राव प्रतिपूर्ति न होने पर फर्म द्वारा द्वितीय नलकूप निर्माण कराते हुए पूरा किया जायेगा एवं भुगतान के संबंध में राज्य पेयजल स्वच्छता मिशन (एसडब्लूएसएम) द्वारा सक्षम स्तर से स्वीकृति उपरान्त नियमानुसार किया जायेगा।

अतः प्राप्त एक्यूफर के दृष्टिगत 300x300 मि०मी० व्यास साइज के 57.50 मीटर गहरे नलकूप जिसमें 5.50 मीटर स्लाटेड पाइप का उपयोग किया जायेगा, आपको तकनीकी स्वीकृति हेतु संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।

संलग्नक- लार्गिंग रिपोर्ट की छायाप्रति



संगणक

जूनि० इंजी०

सहायक अभियन्ता

अधिशाली अभियन्ता

अधीक्षण अभियन्ता

VARIATION STATEMENT AGAINST C.A. NO-478/ED/PHASE-2/2022-23/X, Date- 27-02-2023

For Construction of 198/57.51 mts. deep 300 X 300 mm. dia assembly size T.W. inspite of 200/180 mts. deep 200 X 150 mm. dia assembly size T.W. by D.C. Rig Machine at Block - Kasimabad, Zone 1, Gram Panchayat - Rajapur TW 1 Water Supply Scheme in District - Ghazipur

Sl. No	Item of work	Unit	Rate	Cost As Per Cover Aggrement (200/180 mts. deep 200 X 150 mm. dia assembly size)		Expenditure as per Actual Work Executed at Site due to adverse Geophysical Condition (198/57.51 mts. deep 300 X 300 mm. dia assembly size)	
				Qty	Amount (Rs)	Qty	Amount (Rs)
1	2	3	4	5	6	7	8
1	Transportation, Installation Dismantling of Rig machine and logging of bore hole.	Job	156,159.07	1	156,159.07	1	156,159.07
	Tubewell construction:						
	Drilling of Borehole for Tubewell construction by DC/RC/DTH Rig Machine including transportaion, erection, dismantling of Rig and associated T&P complete in all respect including required all material labour etc.						
2	DC/RC Drilling up to 100 Mtr.						
3	600 MMØ	Rmt	3,241.68			62	200,983.87
4	500 MMØ	Rmt	2,717.19	65	176,617.39		
5	450 MMØ	Rmt	2,454.95	35	85,923.19	38	93,288.03
6	DC/RC Drilling from 100Mtr. To 200 Mtr.						
	600 MMØ	Rmt	3,551.98				
	500 MMØ	Rmt	3,033.75				
7	450 MMØ	Rmt	2,774.63	100	277,463.01	98	271,913.75
8	DC/RC Drilling from 200 Mtr. To 300 Mtr.						
	500 MMØ	Rmt	3,363.28				
9	450 MMØ	Rmt	3,158.99				
10	DC/RC Drilling from 300 Mtr. To 400 Mtr.						
11	450 MMØ	Rmt	3,703.10				
12	Tubewell Assembly:						
13	MSERW plain pipe As per IS 4270						
14	300 MMØ	Rmt	3,794.68			52.51	199,258.65
15	200 MMØ	Rmt	2,546.43	60	152,785.80		
16	150 MMØ	Rmt	1,897.34	96	182,144.64		
17	MSERW slotted pipe as per IS 8110						
18	150 MMØ	Rmt	2,796.08	24	67,105.92		
19	200 MMØ	Rmt	3,828.43				
20	300 MMØ	Rmt	5,181.33			5.50	28,497.29
21	MS Borewell cap fixture including fitting charges						
22	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure.	Job	32,249.79	1	32,249.79	1	32,249.79
23	MS fittings such as ring & centre guide	Rmt	471.02	180	84,783.54	58.01	27,323.85
24	Lowering of Tube well Assembly: Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.						
25	Lowering of MSERW Plain/Slotted Pipe up to 100 Mtr. Deep						
26	300 MMØ MSERW Plane/Slotted Pipe	Rmt	489.31			57.51	28,140.45
27	200 MMØ MSERW Plane/Slotted Pipe	Rmt	389.45	60	23,367.24		
28	150 MMØ MSERW Plane/Slotted Pipe	Rmt	385.46	40	15,418.38		
29	Lowering of MSERW Plane/Slotted Pipe from 100 Mtr. To 200 Mtr. Deep						
30	150 MMØ MSERW Plane/Slotted Pipe	Rmt	442.38	80	35,390.38		
31	200 MMØ MSERW Plane/Slotted Pipe	Rmt	589.97				
32	300 MMØ MSERW Plane/Slotted Pipe	Rmt	881.17				
	Total Amount				1,289,408.35		1,037,814.74
	Say				1,289,408.00		1,037,815.00

Net Savings Amount Rs. 251,593.00
Net Savings In Percentage 19.51%


(Company Rep.)

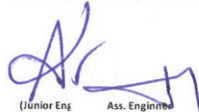
M/S VSAIPPL-SMC JV, Ghazipur

(TPIA Rep.)

Medhaj Techno Concept Pvt. Ltd., Ghazipur


(Computer)

Division Office(E/M), Divis Office(E/M), U.P. Jal Nigam(Rural), Varanasi


(Junior Eng. Ass. Engineer)

Div. Accountant

Ex. Engineer

Sup. Engineer

Circle office
(E/M), UPJN, Vns

M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Actual Strata Chart of RAJAPUR KALAN REORGANISATION WSS, BLOCK- KASIMABAD, ZONE 1, GRAM PANCHAYAT - RAJAPUR TW 1
Under Jal Jivan Mission, District- Ghazipur (U.P.)

PHYSICAL STRATA			Drilling and assembly 750 mm Ø/ØMM	MS Ring Collar length ↓	BGL including MS Ring Collar ↓
S.No	BGL in meter				
	From	to	Formation		
1	0	6	Clay		5.510
2	6	12	Clay Kankad		11.510
3	12	24	Kankad		17.520
4	24	28	Kankad with Very Fine Sand		23.520
5	28	36	Kankad		29.540
6	36	42	Very Fine Sand		35.550
7	42	48	Clay Kankad		37.250
8	48	54	Very Fine Sand		39.750
9	54	98	Clay Kankad		45.750
10	98	166	Kankad		48.500
11	166	190	Fine Sand		51.500
12	190	198	Clay Kankad		57.510
					62.000



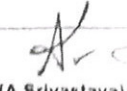
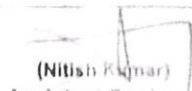
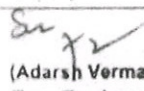
Logging

Date-05/06/2023

S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	24	28	4	Good
2	37	40	3	Good
3	48	52	4	Moderate
4	190	194	4	Moderate

- Note**
- 1 Fine bands of kankar are intermixed with almost all the zones.
 - 2 Quality of ground water is deteriorating marginal to saline in between 88.0 to 184 m bgl.
 - 3 Predominated clay is present in depth range 184.0 to 189.0 to bgl.
 - 4 Please ensure pre-monsoon water level before lower the well assembly

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	550.000	LPM		
2	Clear Depth of bore 600mm	0	Mbgl	62.000	Mbgl
3	Clear Depth of bore 500mm	65	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	200	Mbgl	198.000	Mbgl
5	Plane pipe 300MM	0	m	52.510	m
6	Plane pipe 200MM	60	m	0.000	m
7	Plane pipe 150MM	96	m	0.000	m
8	Slotted pipe 300MM	0	m	5.500	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	24	m	0.000	m
11	Date of lowering			10/6/2023	

 Company Repre. M/S VSAIPPL-SMC JV, Ghazipur (U.P)	 TPIA Medhaj Techno Concept Pvt. Ltd., Ghazipur	 (A.Srivastava) Junior Engineer Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi	 (Nitish Kumar) Assistant Engineer	 (Adarsh Verma) Exe. Engineer
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STATE WATER AND SANITATION MISSION, UTTAR PRADESH

Ultimate design year - 2052

In this project, various facilities of water supply works are designed to meet the requirement of the

Table : Design period of various facilities in water supply system

Sr. No.	Facilities in Water Supply Works	Design Capacity (Years)
1	Tubewell	15
2	Overhead Tanks	15
3	Rising/Distribution System	30

10) Zonal Data:

Rajapur Kalan Water supply scheme consists of 3 Gram Panchayaths - Rajapur, Jagdishpur, Chawanpur Gani with 10 revenue villages - Rajapur Kalan, Rajapur Khurd, Chak Damodar, Jagdishpur, Pandekatya M. Nasiruddinpur, Urha, Buranpur, Chak Abdul Rasul, Chawanpur Gani, Sultanpurmdharwarkalan. Due to Population, Topography, National/state Highways, Railway Line and Existing water supply system of the Water supply Scheme and also considering the minimum traverse length between feeding node to farthest node, the Rajapur Kalan Water Supply Scheme area is divided into 1 Zones as listed below:

Zoning	Gram Panchayat	Revenue village	Habitations	Census 2011		
				Code	Population	HH
Zone-1	RAJAPUR	RAJAPUR KALAN	RAJAPUR KALAN	205395	2,180	340
			RAJBHAR BASTI			
			VIND BASTI MIDDLE			
			VIND BASTI CHATTI			
			RAJAPUR KHURD			
	JAGDISHPUR	CHAK DAMODAR	CHAK	205396	111	19
			JAGDISHPUR	JAGDISHPUR	205397	849
			HARIJAN BASTI			
		PANDEKATYA M. NASIRUDDINPUR	PANDEKATYA M.	205403	830	143
			DUSHADH			
		URHA	URHA	205404	255	39
			MATHIA			
	CHAWANPUR GANI	BURANPUR	BURANPUR	205399	127	17
			CHAK ABDUL RASUL	CHAK ABDUL	205398	129
CHAWANPUR GANI		CHAWANPUR	205393	1,902	239	
		RAJBHAR				
		HARIJAN				
		KHAZIRPUR				
		HARIJAN				
RAJBHAR						
YADAV BASTI						
SULTANPURMDHAR	SULTANPURM	205400	97	14		
TOTAL :					6,584	1,014



11.6

BOQ - E&M
ZONE 1

RAJAPUR KALAN REORGANISATION WATER SUPPLY SCHEME

"UNDER JAL JEEVAN MISSION"

TEHSIL - KHASIMABAD, BLOCK - KHASIMABAD

DISTRICT - GHAZIPUR

Bill of Quantity - TUBEWELL CONSTRUCTION

S.No.	SOR NO	Item of work	No.	L	B	H/D	Qty	Rate	Unit	Amount
1	As per RFP.	Drilling of Borehole for Tube well construction by DC/RC/DTH Rig Machine including transportation, erection, dismantling of Rig and associated T&P complete in all respect including required all material labor etc.								
1.1	2.01	Transportation, Installation Dismantling of Rig machine and logging of bore hole					1	156159.07	Job	156,159.07
1.2		DC/RC Drilling up to 100Mtr.								
1.2.1	2.06	500 MMØ	1	65			65	2717.19	Rmt	176,617.39
1.2.2	2.05	450 MMØ	1	35			35	2454.95	Rmt	85,923.19
1.3		DC/RC Drilling from 10. MT. To 300 Mtr.Deep								
1.3.1	2.09	450 MMØ	1	100			100	2774.63	Rmt	277,463.01
1.4		DC/RC Drilling from 201 MT. To 300 Mtr.Deep								
1.4.1	2.13	450 MMØ	1	0			0	3158.99	Rmt	-
1.5		DC/RC Drilling from 301 MT. To 400 Mtr.Deep								
1.5.1	2.17	450 MMØ	1	0			0	3703.10	Rmt	-
1.6	2.2	DTH Drilling upto 200.0 Mtr.Deep - 165/200 MMØ (in over burden/Hard Rock).	1	0			0	0	Rmt	-
1.7	2.22	Development / Flushing of tubewell	0				0	2895.94	Hrs	-
1.8	3.01	Tube Well Assembly								
1.8.1	3.04	MSERW plane pipe						0		
1.8.2	3.03	200 MMØ	1	60			60	2546.43	Rmt	152,785.80
1.9		150 MMØ	1	96			96	1897.34	Rmt	182,144.64
1.9.1	3.08	MSERW Pipe slotted pipe as per IS 8110	1	24.00			24	2796.08	Rmt	67,105.92

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State Water and Sanitation Mission (SWSM)

1.9.2	3.11	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure				1	32249.79	Job	32,249.79
1.9.3	3.12	MS fittings such as ring & centre guide	1	180		180	471.02	Rmt	84,783.54
2.0	As per RFP.	Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.							
2.1	4	Lowering up to 100 Mtr. Deep							
2.1.1	4.04	200 MMØ MSERW Plane/Slotted Pipe				60	389.45	Rmt	23,367.24
2.1.2	4.03	150 MMØ MSERW Plane/Slotted Pipe				40	385.46	Rmt	15,418.38
2.2	4.06	Lowering from 100 Mtr. To 200 Mtr. Deep							
2.2.1	4.07	150 MMØ MSERW Plane/Slotted Pipe				80	442.38	Rmt	35,390.38
2.3	4.1	Lowering from 200 Mtr. To 300 Mtr. Deep							
2.3.1	4.11	150 MMØ MSERW Plane/Slotted Pipe				0	569.55	Rmt	-
2.4	4.14	Lowering from 300 Mtr. To 400 Mtr. Deep							
2.4.1	4.15	150 MMØ MSERW Plane/Slotted Pipe				0	425.93	Rmt	-
2.5	5	Supplying and unconsolidated packing of gravel with suitable size				45.3	7489.5	Cum	339,589.04
3.0	6	Development of Tube well							
3.1	6.03	Transportation, Installation Dismantling of 400 PSI Compressor				1	92022.59	Job	92,022.99
3.2	6.05	Charges for Development by 400 PSI Compressor per hour				40	3267.27	Hrs	130,650.78
3.3	6.09	Transportation, Installation Dismantling of 1 Cusec OP Unit and Yield test, water test				1	105089.67	Job	105,089.67
3.4	6.10	Charges for Development of TW by 1 Cusec OP Unit				70	993.04	Hr.	69,512.65
Total cost for each tubewell									2,026,313.5
Total cost for 2 tubewells									4,052,626.9
4	47	Earth filling of abandoned tubewell in Waterworks campus	1	34.23		34.23	106.85	Cum	3,657.86
Total Cost of Tubewell									4,056,284.79
Total Cost (In Lacs)									40.56

RAJAPUR KALAN REORGANISATION WATER SUPPLY SCHEME
"UNDER JAL JEEVAN MISSION"
TEHSIL - KHASIMABAD, BLOCK - KHASIMABAD
DISTRICT - GHAZIPIUR
Bill of Quantity - PUMPING PLANT

S.No.	SOR NO	Item of work	No.	L	B	H/D	Qty	Rate	Unit	Amount
1		Pumps & Fittings								
7		SITC of Pumping plant including pumps with motors starter, pannel, cable, complete in all respect with all required material T&P labour etc.								
7.07		12.5HP (550 LPM, 48M Head)	1				1	238465.68	Nos	238,466
8		Pressure Transmitter	1				1	43059.63	Nos	43,060
3		SITC of Chain Pulley Blocks with MS Stand:								
9.1		1 Tonne	1				1	4620.17	Nos.	46,240
10		Turbidity & Chlorine analyzer:	1				1	272617.8	Lot	272,618
5	11	Hydrostatic level sensor: Providing and installation hydrostatic level sensor at all tubewell pumping system including all accessories etc. complete in all respect as per instructions of Engineer-in-charge.	1				1	125823.6	Nos.	125,824
6	48.23	Column Pipe: 3Mtr. Long Column Pipe	9				9	4194.12	Nos.	37,747
7	61	80 mm Dia size - MS pipe Complete cabling for tubewell including all power and control cables of all equipments at pumphouse and OHT.	0				0	59916	Job	-
3	56.00	Electromagnetic flow meters:								
	MOM.1.a	80mm	1				1	94867	Nos	94,867
8		Valves & Fittings								
8.1	9	Electrically operated Sluice Valve 80 mm dia	2				2	119832	Nos	239,664