

अधीक्षण अभियन्ता,

महोदय,

जल जीवन मिशन कार्यक्रम अन्तर्गत **मीरापुर कलावल** पेयजल योजना **ब्लॉक – महाराजगंज** जनपद जौनपुर में 200x150 एम0एम0 व्यास साइज के 270/300 मीटर गहरे नलकूप का निर्माण किया जाना है एवं उक्त नलकूप से 530 ली0प्र0मि0 श्राव लिया जाना प्रस्तावित है। अनुबन्ध सं0– 243/ED/PHASE-3/2022-23/IV दिनांक 17.12.2022 के माध्यम से M/s Afcons Infrastructure Ltd, Mumbai द्वारा नलकूप निर्माण कार्य सम्पादित कराया जा रहा है। दिनांक 13.08.2024 को नलकूप के बोर की इलेक्ट्रिक लॉगिंग करायी गयी जिसमें कुल लॉगिंग की गहराई मात्र 294 मीटर ही प्राप्त हुई, जिसमें 74 mbgl गहराई से लॉगिंग गहराई तक स्ट्रेटा का पानी खारा होना पाया गया। बोर की इलेक्ट्रिक लॉगिंग के उपरान्त जो स्ट्रेटा प्राप्त हुआ है, उसका विवरण निम्नानुसार है।

Depth drilled – 294 mBGL Depth logged – 294 mBGL Date of logging- 13.08.2024

Logging Report				Physical Strata		
Sl.N.	Depth Range (mbgl)	Thickness (m)	Remark	Sl.N	Depth Range (mbgl)	Strata
1	15-19	4	Good	1	0-16	Clay
2	22-29	7	Good	2	16-35	F.S.
3	42-55	13	Good	3	35-110	F.S + Kankar
				4	110-180	M.S.
				5	180-294	M.S. + Kankar

Note: -


- 1- Quality of ground water is deteriorating Marginal to saline below 74.0 m bgl to till depth logged.
- 2- Please ensure Pre-monsoon water level before lower the well assembly.

अनुबन्ध में उपरोक्त नलकूप से 530 ली0प्र0मि0 श्राव प्राप्त करने हेतु Enterance Velocity 0.010 m/sec पर 24 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लॉगिंग के उपरान्त प्राप्त स्ट्रेटा के अनुसार अधिकतम 12.00 मीटर ही स्लाटेड पाइप डाली जा सकती है।

Physically encountered Strata एवं लॉगिंग रिपोर्ट का निरीक्षण करने पर पाया गया कि उक्त के अन्तर्गत Aquifer Fine Sand + Kankar का है एवं लॉगिंग रिपोर्ट के अनुसार केवल 12.00 मीटर स्लाटेड पाइप ही लोवर की जा सकती है, जिससे 990 ली0प्र0मि0 श्राव प्राप्त किया जाना सम्भव नहीं है। ऐसी स्थिति में 150 मि0मी0 स्लाटेड पाइप के स्थान पर 300 मि0मी0 व्यास साइज की स्लाटेड पाइप का उपयोग किया जाय तो 12.00 मीटर की लम्बाई में Enterance area को बढ़ाकर आवश्यक वांछित श्राव प्राप्त करने का प्रयास किया जा सकता है। उल्लेखनीय है यदि 12.00 मीटर लम्बाई में 150 मि0मी0 के स्थान पर 300 मि0मी0 व्यास साइज की स्लाटेड पाइप का उपयोग किया जाय तो Opening enterance area 150 मि0मी0 व्यास साइज के 23.04 मीटर पाइप के बराबर आयेगी, जो Aquifer structure के दृष्टिगत उचित होगा एवं निर्धारित श्राव के परिप्रेक्ष्य में उचित सिद्ध होगा, जो कि यील्ड टेस्ट के उपरान्त डिप्रेषन की मानकों के गणना के दृष्टिगत स्पष्ट हो पायेगा, अनुबंध 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 (एस0डब्लू0एस0एम0) द्वारा सक्षम स्तर से स्वीकृति उपरान्त नियमानुसार किया जायेगा।

अतः प्राप्त एक्यूफर के दृष्टिगत 300x300 मि0मी0 व्यास साइज के 61.00 मीटर गहरे नलकूप जिसमें 12.00 मीटर स्लाटेड पाइप का उपयोग किया जायेगा, आपको तकनीकी स्वीकृति हेतु संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।

संलग्नक– लॉगिंग रिपोर्ट की छायाप्रति।


M/s Afcons
Infrastructure Ltd.
Mumbai

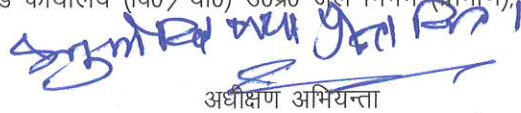

संगणक


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सहायक अभियन्ता
SWSM


अधीशासी अभियन्ता

खण्ड कार्यालय (वि0/यॉ0) उ0प्र0 जल निगम (ग्रामीण), वाराणसी।


अधीक्षण अभियन्ता

मण्डल कार्यालय (वि0/यॉ0) उ0प्र0 जल निगम (ग्रामीण), वाराणसी।

VARIATION STATEMENT AGAINST C.A. NO-02

MEERAPUR KEWAL VILLAGE WATER SUPPLY SCHEME UNDER SWSM BLOCK MAHARAJGANJ, DISTRICT JAUNPUR

Sl No	Item of work	Unit	As per Approved DPR			As per Site Executed		Variation	
			Rate Rs.	Qty	Amount (Rs)	Qty	Amount (Rs)	Qty	Amount (Rs)
2	DC/RC Drilling including Hiring Transportaion, Erection, Dismantling with Loading and unloading of Rig and associated T&P complete in all respect including required all material labour & T&P etc.	3	4	5	6	7	8	7	8
	DC/RC Drilling up to 100Mtr.								
2.01	400mm dia	Mtr.	2,195.78		-		-		-
2.02	450mm dia	Mtr.	2,458.39	34	83,585.26	33.00	81,126.87	1.00	2,458.39
2.03	500mm dia	Mtr.	2,721.00	66	1,79,586.00		-	66.00	1,79,586.00
2.04	600mm dia	Mtr.	3,246.22		-	67.00	2,17,496.74	-67.00	-2,17,496.74
	DC/RC Drilling from 101 MT. To 200 Mtr.Deep								
2.05	400mm dia	Mtr.	2,578.52		-		-		-
2.06	450mm dia	Mtr.	2,778.52	100	2,77,852.00	100.00	2,77,852.00		-
2.07	500mm dia	Mtr.	3,038.00		-		-		-
2.08	600mm dia	Mtr.	3,556.96		-		-		-
	DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep								
2.09	400mm dia	Mtr.	2,963.42		-		-		-
2.1	450mm dia	Mtr.	3,163.42	100	3,16,342.00	94.00	2,97,361.48	6.00	18,980.52
2.11	500mm dia	Mtr.	3,368.00		-		-		-
2.12	600mm dia	Mtr.	3,777.16		-		-		-
3	Tubwell Assembly:								
	MSERW plain pipe,As per IS 4270								
3.01	100mm dia	Mtr.	1,200.00		-		-		-
3.02	150mm dia	Mtr.	2,000.00	186	3,72,000.00		-	186.00	3,72,000.00
3.03	200mm dia	Mtr.	2,550.00	60	1,53,000.00		-	60.00	1,53,000.00
3.04	300mm dia	Mtr.	3,990.00		-	49.00	1,95,510.00	-49.00	-1,95,510.00
	MSERW Pipe slotted pipe as per IS 8110								
3.05	100mm dia	Mtr.	1,570.00		-		-		-
3.06	150mm dia	Mtr.	3,080.00	24	73,920.00		-	24.00	73,920.00
3.07	200mm dia	Mtr.	3,945.00		-		-		-
3.08	300mm dia	Mtr.	5,707.45		-	12.00	68,489.40	-12.00	-68,489.40
	MS Ring								
3.09	100mm dia	Nos.	1,000.00		-		-		-
3.1	150mm dia	Nos.	1,270.00	39	49,530.00		-	39.00	49,530.00
3.11	200mm dia	Nos.	1,600.00	10	16,000.00		-	10.00	16,000.00
3.12	300mm dia	Nos.	2,070.00		-	10.00	20,700.00	-10.00	-20,700.00
	MS Bail plug As per IS 2800								
3.13	100mm dia	Nos.	1,500.00		-		-		-
3.14	150mm dia	Nos.	1,725.00	1	1,725.00		-	1.00	1,725.00
3.15	200mm dia	Nos.	2,070.00		-		-		-
3.16	300mm dia	Nos.	3,000.00		-	1.00	3,000.00	-1.00	-3,000.00
	Reducer-								
3.17	300 x 200mm reducer	Nos.	6,550.00		-		-		-
3.18	200 x 150mm reducer	Nos.	4,150.00	1	4,150.00		-	1.00	4,150.00
3.19	300 x 150mm reducer	Nos.	5,500.00		-		-		-
3.2	200 x 100mm reducer	Nos.	3,550.00		-		-		-
3.21	150 x 100mm reducer	Nos.	2,850.00		-		-		-
	MS S.I. Clamp- As per IS 2800								
3.22	100mm dia	Nos.	1,250.00		-		-		-
3.23	150mm dia	Nos.	1,500.00		-		-		-
3.24	200mm dia	Nos.	2,000.00	1	2,000.00		-	1.00	2,000.00
3.25	300mm dia	Nos.	4,050.00		-	1.00	4,050.00	-1.00	-4,050.00
	TW Assy Support-								
3.26	100mm dia	Nos.	10,500.00		-		-		-
3.27	150mm dia	Nos.	13,500.00		-		-		-
3.28	200mm dia	Nos.	15,500.00		-		-		-
3.29	300mm dia	Nos.	17,500.00	1	17,500.00	1.00	17,500.00		-
	MS Well Cap-								
3.3	100mm dia	Nos.	1,000.00		-		-		-
3.31	150mm dia	Nos.	1,250.00		-		-		-
3.32	200mm dia	Nos.	1,350.00	1	1,350.00		-	1.00	1,350.00
3.33	300mm dia	Nos.	1,550.00		-	1.00	1,550.00	-1.00	-1,550.00
	Centre Guide-								
3.34	150mm dia	Nos.	920.00	18	16,560.00		-	18.00	16,560.00
3.35	200mm dia	Nos.	1,040.00		-		-		-
4	Lowering of above Tubewell assembly including Carting upto site and welding of parts complete in all respect with all required material T&P labour etc.								
0	Lowering up to 100 Mtr. Deep								
4.01	100mm dia	Mtr.	190.00		-		-		-
4.02	150mm dia	Mtr.	319.00	40	12,760.00		-	40.00	12,760.00
4.03	200mm dia	Mtr.	396.00	60	23,760.00		-	60.00	23,760.00
4.04	300mm dia	Mtr.	490.00		-	61.00	29,890.00	-61.00	-29,890.00
	Lowering from 101 Mtr. To 200 Mtr. Deep								
4.05	100mm dia	Mtr.	293.00		-		-		-
4.06	150mm dia	Mtr.	407.00	100	40,700.00		-	100.00	40,700.00
4.07	200mm dia	Mtr.	473.00		-		-		-
4.08	300mm dia	Mtr.	616.00		-		-		-
	Lowering from 201 Mtr. To 300 Mtr. Deep								
4.09	100mm dia	Mtr.	396.00		-		-		-
4.1	150mm dia	Mtr.	473.00	70	33,110.00		-	70.00	33,110.00
4.11	200mm dia	Mtr.	550.00		-		-		-
4.12	300mm dia	Mtr.	693.00		-		-		-
	Lowering from 301 Mtr. To 400 Mtr. Deep & above								
4.13	100mm dia	Mtr.	410.00		-		-		-
4.14	150mm dia	Mtr.	490.51		-		-		-
4.15	200mm dia	Mtr.	573.85		-		-		-
4.16	300mm dia	Mtr.	708.33		-		-		-
4.17	Logging of Borehole by Electric logging	Job	18,000.00	1	18,000.00	1.00	18,000.00		-
	Total Amount				16,93,430.26		12,32,526.49		4,60,903.77
	Say				16,93,430.00		12,32,526.00		4,60,904.00

Net Savings Amount Rs. 4,60,904.00
Net Savings In Percentage 27%

(Company Rep.)

(Computer)

(Junior Engineer)

Asst. Engineer

Div. Accountant

Exe. Engineer

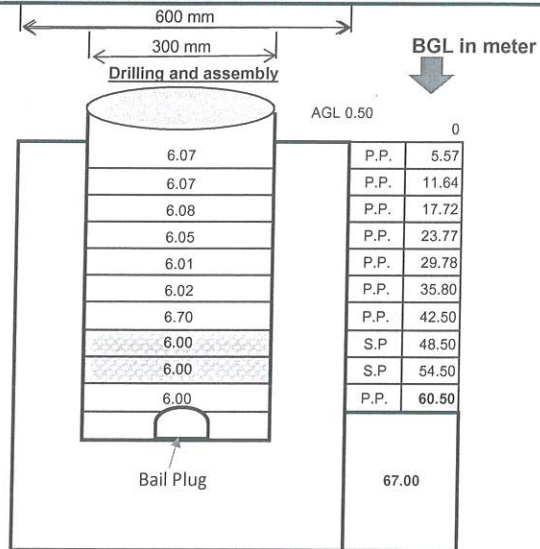
Sup. Engineer

M/S Afcons Infrastructure Limited, Mumbai

Regd. Office- AFCONS House, 16, Shah Industrial Estate, Veera Desai Road, Azadnagar, Andheri (W), Mumbai 400013

Under Jal Jeevan Mission, District- Jaunpur (U.P.)

Actual TW Assembly of Gp-Meerapur Kewal TW, Block-Maharajganj, Dist. Jaunpur



PHYSICAL STRATA

S.No.	BGL in meter		Formation
	From	to	
1	0	16	Clay
2	16	35	F.S.
3	35	110	F.S. + Kankar
4	110	180	M.S.
5	180	294	M.S. + Kankar

Logging Report

Date of Logging-13.08.2024					
S.No.	Depth (Mbgf)		Thickness (m)	Quality (In terms of Salinity)	Remark
	From	to			
1	15	19	4	Good	
2	22	29	7	Good	
3	42	55	13	Good	

Note:-

1	Quality of the formation water is deteriorating marginal to saline below 74.0 m bgl to till depth logged.
2	Please ensure pre-monsoon water level before lower the well assembly.

Drilling & Reaming Details

S.No.	Date of lowering	29-08-2024
1	Depth of bore 600mm ϕ	67.00 Mtr
2	Depth of bore 450mm ϕ	227.00 Mtr
Pipe Lowering Details		
3	Housing pipe 300 mm ϕ	49.00 m
4	Slotted pipe 300 mm ϕ	12.00 m
Total		61.00 m

(Signature)
Company Repre.

M/S Afcons Infrastructure Ltd
Jaunpur (U.P.)

(Signature)
TPIA

Medhaj Techno Concept Pvt. Ltd., Jaunpur

(Signature)
(Awadesh Saroj)
Junior Engineer

(Signature)
(Sudhanshu Singh)
Assistant Engineer, SWSM

(Signature)
(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:24-25:LS: || 0

Dated: 14-08-2024

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: **Meerapur Kewal**
Block: **Maharajganj**
District: **Jaunpur**
State: **Uttar Pradesh**
Date of Logging: **13-08-2024**
Drilling Depth: **300.0 m bgl**
Logging Depth: **294.0 m bgl**
Latitude: **25.9070980**
Longitude: **82.3520250**
Rm – **4.5 Ωm** Rw – **4.7 Ωm**

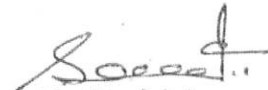
Borehole Drilled by: M/s Afcons Infrastructure Limited, Jaunpur, U. P.

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 (meter)	Remark (Quality of Aquifer Water)
1.	15 – 19	04	Good
2.	22 – 29	07	Good
3.	42 – 55	13	Good

- Note: 1. Quality of ground water is deteriorating marginal to saline below 74.0 m bgl to till depth logged.
2. Please ensure pre-monsoon water level before lower the well assembly.

For Geo Instruments & Technic's


(S. Shukla)

Afcon

Proposed T10 Assembly of Meerapur

Kewal T10 Block - Maharajganj Dist. - JHP

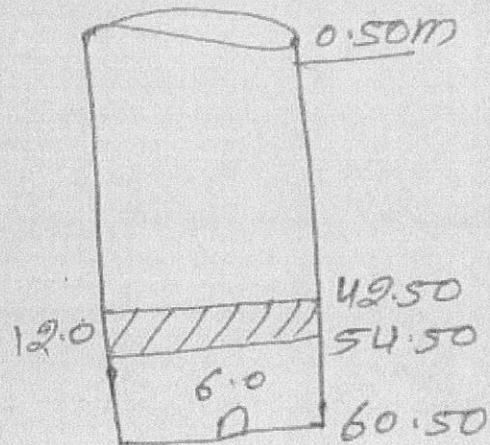
LPM = 530

300mm d.p.f. = 49.0

300mm s.f. = 12.0

61.0

[Signature]
16/08/21



ESTIMATE FOR MIRAPUR KALAWAL GRAM PANCHAYAT WATER SUPPLY SCHEME

UNDER - JJM

BLOCK - MAHARAJGANJ, TEHSIL - BADLAPUR, DISTRICT - JAUNPUR

Estimate of Cost of One Tubewell construction

Discharge	530	LPM
Head	47	M
Drilling Depth of Tube well	300	M
Lowering of Tube well	270	M
Size of Tube well Assembly	200 x 150 mm	

SI No.	Item of work	No.	Qty	Rate (In Rs)	Unit	Amount (In Rs.)	Remarks	SOR Item No.
1	DC/RC Drilling including hiring transportation, erection, dismantling with loading and unloading of Rig and associated T&P complete in all respect including required all material labor T&P etc.						As per RFP.	
1.1	DC/RC Drilling up to 100Mtr.							
1.1.1	Tube well construction - 600 MMØ	1	0	3246.22	Rmt	0.00		2.04
1.1.2	Tube well construction - 500 MMØ	1	66.0	2721.00	Rmt	179586.00		2.03
1.1.3	Tube well construction - 450 MMØ	1	34.0	2458.39	Rmt	83585.26		2.02
1.2	DC/RC Drilling from 101 MT. To 200 Mtr.Deep							
1.2.1	450 MMØ	1	100.0	2778.52	Rmt	277852.00		2.06
1.3	DC/RC Drilling from 201 MT. To 300 Mtr.Deep							
1.3.1	450 MMØ	1	100.0	3163.42	Rmt	316342.00		2.10
1.4	DC/RC Drilling from 301 MT. To 400 Mtr.Deep & above							
1.4.1	450 MMØ	1	0.0	3708.29	Rmt	0.00		2.14
1.4.2	Development / Flushing of tubewell	1	0.0	2900.00	Hr.	0.00		2.18
2.0	Tubewell Assembly:							
2.1	MSERW Plain pipe as per IS 4270							
2.1.1	200 MMØ	1	60.0	2550.00	Rmt	153000.00		3.03
2.1.2	150 MMØ	1	186.0	2000.00	Rmt	372000.00		3.02
2.2	MSERW Pipe slotted pipe as per IS 8110							
2.2.1	150 MMØ	1	24.0	3080.00	Rmt	73920.00		3.06
2.3	150 mmØ MS. Ring made by 150 mm × 12 mm Flat	1	39	1270.00	Nos.	49530.00		3.10
2.4	200 mmØ MS. Ring made by 150 mm × 12 mm Flat	1	10	1600.00	Nos.	16000.00		3.11
2.5	150 mm M.S. Bail plug	1	1	1725.00	Nos.	1725.00		3.14
2.6	200 × 150 mm Reducer	1	1	4150.00	Nos.	4150.00		3.18
2.7	200 mm Ø MS S.I Clamp	1	1	2000.00	Nos.	2000.00		3.24
2.8	200 mm Ø Tubewell Assembly Support	1	1	15500.00	Nos.	15500.00		3.28
2.90	200 mm Ø MS Well Cap	1	1	1350.00	Nos.	1350.00		3.32
2.10	Center Guide for 150 mmØ TW assembly	1	18	920.00	Nos.	16560.00		3.34
3	Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.						As per RFP.	
3.1	Lowering up to 100 Mtr. Deep							
3.1.1	200 MMØ MSERW Plane/Slotted Pipe	1	60.0	396.00	Rmt	23760.00		4.03
3.1.2	150 MMØ MSERW Plane/Slotted Pipe	1	40.0	319.00	Rmt	12760.00		4.02

3.2	Lowering from 101 Mtr. To 200 Mtr. Deep					0.00		
3.2.1	150 MMØ MSERW Plane/Slotted Pipe	1	100.0	407.00	Rmt	40700.00		4.06
3.3	Lowering from 201 Mtr. To 300 Mtr. Deep					0.00		
3.3.1	150 MMØ MSERW Plane/Slotted Pipe	1	70.0	473.00	Rmt	33110.00		4.10
3.4	Lowering from 301 Mtr. To 400 Mtr. Deep & above					0.00		
3.4.1	150 MMØ MSERW Plane/Slotted Pipe	1	0.0	490.51	Rmt	0.00		4.14
4.0	Supplying and unconsolidated packing of gravel with suitable size	1	65	7500.00	Cum	487500.00	As per RFP.	5.00
5.0	Development of Tube Well						As per RFP.	
5.1	600 PSI Compressor per hour	1	40	5000.00	Job	200000.00		6.04
5.2	Charges for Development of TW by 1 cusec OP Unit	1	70	1125.00	Hr.	78750.00		6.06
5.3	Charges for Development of TW by 3 cusec OP Unit	1	0	1405.00	Hr.	0.00		6.07
6.0	Logging of Borehole by electric logging	1	1	18000.00	Job	18000.00		4.17
	Total					2457680.26		
					Say (In Lacs)	24.58		

Note : The actual quantity of gravel may vary as per site condition, variable quantity will be payable as per certification.