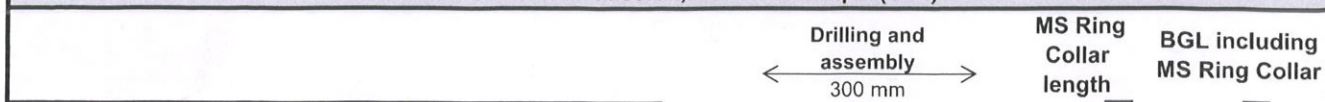


M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Actual Strata Chart of KASIMABAD REORGANISATION WSS, BLOCK-KASIMABAD, ZONE 6, GRAM PANCHAYAT - TODAR

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



PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	18	Clay
2	18	22	Very Fine Sand with Kankad
3	22	24	Kankad
4	24	34	Kankad with Very Fine Sand
5	34	52	Kankad
6	52	60	Very Fine Sand with Kankad
7	60	80	Clay Kankad
8	80	102	Very Fine Sand with Kankad
9	102	150	Kankad Clay
10	150	163	Kankad with Very Fine Sand

Depth (m)	Formation	MS Ring Collar length	BGL including MS Ring Collar
0.000	P.P.	0.000	5.510
6.010	P.P.	0.000	11.520
6.010	P.P.	0.000	17.530
6.000	P.P.	0.000	23.530
6.010	P.P.	0.000	29.540
6.000	P.P.	0.000	35.540
6.000	P.P.	0.000	41.540
6.010	P.P.	0.000	47.550
6.000	P.P.	0.000	53.550
0.700	P.P.	0.000	54.250
3.500	S.P.	0.000	57.750
6.010	P.P.	0.000	63.760
6.010	P.P.	0.000	69.770
6.010	P.P.	0.000	75.780
6.010	P.P.	0.000	81.790
0.460	P.P.	0.000	82.250
3.500	S.P.	0.000	85.750
4.500	P.P.	0.000	90.250
3.500	S.P.	0.000	93.750
2.000	P.P.	0.000	95.750
			105.000

Logging

Date- 28/5/2023

S.N.	Depth Range		Thickness	Remark
	From	to		
1	18	22	4	Good
2	24	34	10	Good
3	54	58	4	Good
4	72	76	4	Good
5	82	86	4	Good
6	90	94	4	Good
7	96	100	4	Good
8	106	110	4	Moderate
9	128	135	7	Moderate

Note-

1. Fine bands of kankar are intermixed with almost all the zones.
2. Quality of ground water is deteriorating marginal to saline below 144.0 m bgl to till depth logged.

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	550.000	LPM		
2	Clear Depth of bore 600mm	0	Mbgl	105.000	Mbgl
3	Clear Depth of bore 500mm	65	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	200	Mbgl	163.000	Mbgl
5	Plane pipe 300MM	0	m	85.750	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	10.500	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	24	m	0.000	m
11	Date of lowering			3/6/2023	

(.....) 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 Division Office(E/M) ,U.P.Jal Nigam(Rural), Varanasi	(Adarsh Verma) Exe. Engineer Division Office(E/M) ,U.P.Jal Nigam(Rural), Varanasi
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Tele Fax : +91-0522-246-5512(O)
Mob. : + 91 - 9415141232, 9554034123
E-mail : geo.instrument@outlook.com

GEO INSTRUMENTS & TECHNIC'S

(A Division of Geophysical Exploration and Instrumentation)

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

Ref:GIT:UP: PJM:23-24:LS: 585

Dated: 30-05-2023

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Todar Zone - 6
Block: Kasimabad
District: Ghazipur
State: Uttar Pradesh
Date of Logging: 28-05-2023
Drilling depth: 200.0 m bgl
Logging Depth: 163.0 m bgl
Rm - 14.0 Qm Rw - 12.0 Qm

(Kasimabad)

Borehole Drilled by: M/s VSAIPPL-SMC JV, Ghazipur, Uttar Pradesh.

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.	18 - 22	04	Good
2.	24 - 34	10	Good
3.	54 - 58	04	Good
4.	72 - 76	04	Good
5.	82 - 86	04	Good
6.	90 - 94	04	Good
7.	96 - 100	04	Good
8.	106 - 110	04	Moderate
9.	128 - 135	07	Moderate

- Note: 1. Fine bands of kankar are intermixed with almost all the zones.
2. Quality of ground water is deteriorating marginal to saline below 144.0 m bgl to till depth logged.

Verified as per logs provided

For Geo Instruments & Technic's

S. Shukla
(S. Shukla)

G.Sh
31/05/23

अधीक्षण अभियन्ता,
महोदय.

जल जीवन मिशन कार्यक्रम अन्तर्गत पेयजल योजना ब्लॉक-कासिमाबाद, जोन 6, ग्राम पंचायत - टोडर. 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 28.05.2023 को नलकूप के बोर की इलेक्ट्रिक लागिंग करायी गयी, जिसका विवरण निम्नानुसार है :-

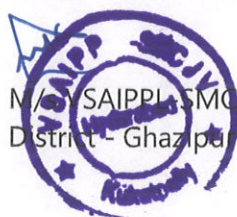
Date-		28/5/2023			PHYSICAL STRATA			
S.N.	Depth Range		Thickness	Remark	S.No.	BGL in meter		Formation
	From	to				From	to	
1	18	22	4	Good	1	0	18	Clay
2	24	34	10	Good	2	18	22	Very Fine Sand with Kankad
3	54	58	4	Good	3	22	24	Kankad
4	72	76	4	Good	4	24	34	Kankad with Very Fine Sand
5	82	86	4	Good	5	34	52	Kankad
6	90	94	4	Good	6	52	60	Very Fine Sand with Kankad
7	96	100	4	Good	7	60	80	Clay Kankad
8	106	110	4	Moderate	8	80	102	Very Fine Sand with Kankad
9	128	135	7	Moderate	9	102	150	Kankad Clay
Note-					10	150	163	Kankad with Very Fine Sand
1.Fine bands of kankar are intermixed with almost all the zones. 2.Quality of ground water is deteriorating marginal to saline below 144.0 m bgl to till depth logged.								

अनुबन्ध में उपरोक्त नलकूप से 550 ली०प्र०मि० श्राव प्राप्त करने हेतु Enterance Velocity 0.015m/sec पर 24 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लागिंग के उपरान्त प्राप्त स्ट्रेटा के अनुसार अधिकतम 10.5 मीटर ही स्लाटेड पाइप डाली जा सकती है।

Physically encountered Strata एवं लागिंग रिपोर्ट का निरीक्षण करने पर पाया गया कि उक्त के अन्तर्गत Aquifer Very Fine sand with Kankad का है एवं लागिंग रिपोर्ट के अनुसार केवल 10.5 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 10.5 मीटर की लम्बाई में Enterance area को बढ़ाकर आवश्यक वांछित श्राव प्राप्त करने का प्रयास किया जा सकता है। उल्लेखनीय है यदि 10.5 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 21.00 मीटर पाइप के बराबर आयेगी, जो Aquifer structure के दृष्टिगत उचित होगा एवं वास्तविक श्राव 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 (एसडब्ल्यूएस०एम०) द्वारा सक्षम स्तर से स्वीकृति उपरान्त नियमानुसार किया जायेगा।

अतः प्राप्त एक्यूफर के दृष्टिगत 300x300 मि०मी० व्यास साइज के 95.75 मीटर गहरे नलकूप जिसमें 10.5 मीटर स्लाटेड पाइप का उपयोग किया जायेगा, आपको तकनीकी स्वीकृति हेतु संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।

संलग्नक- लागिंग रिपोर्ट की छायाप्रति



M/s VSAIPPL-SMC JV
District - Ghazipur

संगणक

जूनियर इंजीनियर

सहायक अभियन्ता

अधीशासी अभियन्ता

अधीक्षण अभियन्ता
मण्डल कार्यालय (वि०/या०)
उ०प्र० जल निगम (ग्रामीण)
वाराणसी।

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

For Construction of 163/95.75 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 6,Gram Panchayat -TODAR 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 (163/95.75 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 assoiated T&P complete in all respect including required all material labour etc.			1	-		-
2	DC/RC Drilling up to 100 Mtr.				-		-
3	600 MMØ	Rmt	3,241.68		-	100	324,167.53
4	500 MMØ	Rmt	2,717.19	65	176,617.39		-
5	450 MMØ	Rmt	2,454.95	35	85,923.19		-
6	DC/RC Drilling from 100Mtr. To 200 Mtr.				-		-
	600 MMØ	Rmt	3,551.98		-	5	17,759.90
	500 MMØ	Rmt	3,033.75		-		-
7	450 MMØ	Rmt	2,774.63	100	277,463.01	58	160,928.54
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	Tubwell Assembly:				-		-
13	MSERW plain pipe As per IS 4270				-		-
14	300 MMØ	Rmt	3,794.68		-	85.75	325,393.81
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		-	10.5	54,403.92
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	96.25	45,335.64
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		-	95.75	46,851.82
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		1,163,250.02
	Say				1,289,408.00		1,163,250.00

Net Savings Amount Rs. 126,158.00
Net Savings in Percentage 9.78%


(Company Rep.)

M/S VSAIPPL-SMC JV,Ghazipur

(TPIA Rep.)

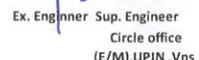
Medhaj Techno Concept Pvt. Ltd.,Ghazipur


(Computer)

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


(Junior En
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 KASIMABAD REORGANISATION WSS, BLOCK-KASIMABAD, ZONE 6, GRAM PANCHAYAT - TODAR

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

10.4

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	18	Clay
2	18	22	Very Fine Sand with Kankad
3	22	24	Kankad
4	24	34	Kankad with Very Fine Sand
5	34	52	Kankad
6	52	60	Very Fine Sand with Kankad
7	60	80	Clay Kankad
8	80	102	Very Fine Sand with Kankad
9	102	150	Kankad Clay
10	150	163	Kankad with Very Fine Sand

Logging

Date- 28/5/2023

S.N.	Depth Range		Thickness	Remark
	From	to		
1	18	22	4	Good
2	24	34	10	Good
3	54	58	4	Good
4	72	76	4	Good
5	82	86	4	Good
6	90	94	4	Good
7	96	100	4	Good
8	106	110	4	Moderate
9	128	135	7	Moderate

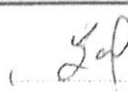
Note-

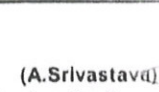

1. Fine bands of kankar are intermixed with almost all the zones.
2. Quality of ground water is deteriorating marginal to saline below 144.0 m bgl to till depth logged.

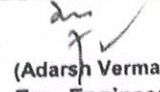
DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	550.000	LPM		
2	Clear Depth of bore 600mm	0	Mbgl	105.000	Mbgl
3	Clear Depth of bore 500mm	65	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	200	Mbgl	163.000	Mbgl
5	Plane pipe 300MM	0	m	85.750	m
6	Plane pipe 200MM	60	m	0.000	m
7	Plane pipe 150MM	96	m	0.000	m
8	Slotted pipe 300MM	0	m	10.500	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	24	m	0.000	m
11	Date of lowering			3/6/2023	

		Drilling and assembly 300 mm 600MM	MS Ring Collar length	BGL including MS Ring Collar
	AGL 0.50		0	
6.010	P.P.		0.000	5.510
6.010	P.P.		0.000	11.520
6.010	P.P.		0.000	17.530
6.000	P.P.		0.000	23.530
6.010	P.P.		0.000	29.540
6.000	P.P.		0.000	35.540
6.000	P.P.		0.000	41.540
6.010	P.P.		0.000	47.550
6.000	P.P.		0.000	53.550
0.700	P.P.		0.000	54.250
3.500	S.P.		0.000	57.750
6.010	P.P.		0.000	63.760
6.010	P.P.		0.000	69.770
6.010	P.P.		0.000	75.780
6.010	P.P.		0.000	81.790
0.460	P.P.		0.000	82.250
3.500	S.P.		0.000	85.750
4.500	P.P.		0.000	90.250
3.500	S.P.		0.000	93.750
2.000	P.P.		0.000	95.750
				105.000


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


TPIA
Medhaj Techno Concept Pvt. Ltd., Ghazipur

 (A. Srivastava) Junior Engineer
 (Nitish Kumar) Assistant Engineer
 Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi


(Adarsh Verma)
Exe. Engineer

SUKHA, TODAR
BAHRAICH
10.5

STATE WATER AND SANITATION MISSION, UTTAR PRADESH

Friction Head Loss per Meter of pipe are computed by using Hazen William Formula given below:

$$Q = [1.292 * 10^{-5} * C * (d^{2.63}) * (S^{0.54})]$$

Where,

- C - Hazen William coefficient
- d - Pipe Diameter in mm
- Q - Discharge in cubic meter per hour
- S - Friction Slope

Hazen William Co-efficient:

It is a factor or value used to indicate the smoothness of the interior of a pipe. The higher the C In this case, following C values for DI and HDPE pipes are taken:

- For
- DI pipes, C = 140
 - HDPE pipes, C = 145

Design Period

The water supply projects are designed to meet the requirements over a 30-year period.

- Base year - 2022
- Intermediate design year - 2037
- Ultimate design year - 2052

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

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:

Kasimabad Water supply scheme consists of 13 Gram Panchayats naming Sukaha, Mekh, Chawanpur Gani, Sonbarsa Urf Kasimabad, Bisunpur, Shahbaazpur, Baragaon M. Sonbarsa, Bahraich, Sekhanpur, Uchauri, Khajuha, Fatehpur, Todar. The proposed scheme supplies water to 29 revenue villages. 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 Kasimabad Water Supply Scheme area is divided into 6 Zones as listed below:

Zoning	Gram Panchayat	Revenue village	Habitations	Census 2011		
				Code	Population	HH
Zone-1	Sukaha	Sukaha	Sukaha	205374	1,849	349
		Kodra	Kodra	205373	551	93
	Mekh	Mekh	Mekh	205377	1,045	139
		Mirjapur M.	Mirjapur M.	205378	568	79
		Tufarpur	Tufarpur	205379	265	32
	Chawanpur Gani	Jamapur	Jamapur	205402	132	31
Zone-2	Chawanpur Gani	Sahawalpur	Sahawalpur	205401	632	143

STATE WATER AND SANITATION MISSION, UTTAR PRADESH

	Sonbarsa Urf	Sonbarsa Urf	Sonbarsa Urf	205372	4,209	574
Zone-3	Bisunpur	Bisunpur M.	Bisunpur M.	205375	1,430	224
		Kutubpur	Kutubpur	205369	878	144
	Shahbaazpur	Shahbaazpur	Shahbaazpur	205368	2,223	355
	Baragaon M.	Baragaon M.	Baragaon M.	205376	1,628	267
Zone-4	Bahraich	Bahraich	Bahraich	205492	1,100	139
	Sekhanpur	Sekhanpur	Sekhanpur	205503	1,248	165
Zone-5	Uchauri	Ahirupur	Ahirupur	205,512	85	16
		Bahrampur	Bahrampur	205,506	610	81
		Chandehara	Chandehara	205,509	121	19
		Mohammadpur	Mohammadp	205,507	205	21
	Khajuha	Uchauri	Uchauri	205,508	1,439	178
		Khajuha	Khajuha	206,485	2,096	342
		Fahimpur	Fahimpur	205,520	207	26
	Fatehpur	Sidhari	Sidhari	205,510	91	12
		Fatehpur	Fatehpur	205,502	1,209	196
		Kamalpur T.	Kamalpur T.	205,501	116	17
		Nagawam Sonbarasa	Nagawam	205,500	231	34
	Zone-6	Todar	Mubarakpur Khedu	Mubarakpur	205363	713
Sultanpur T. Sidhaut			Sultanpur T.	205366	145	22
Todar			Todar	205365	1,254	195
Rajapur T. Sidhaut			Rajapur T.	205364	22	4
TOTAL :					26,402	3,999

11) HIRING OF TEMPORARY GODOWN

A adequate provision for hiring of temporary godown for storing thr required construction materials such as pipes ,cement , steel and other local materials during execution has been made in this estimate. The scheme is proposed to be executed within 2 years.

12) SCHEDULE OF RATES

The rate of centrally purchased materials such as pipes and fitting etc. have been taken on the basis of rates circulated by Chief Engineer U.P. Jai Nigam Lucknow for the Revenue cluster Varanasi Zone(Annexure-1) .The rates of labours and locally available materials which are not mentioned in the SOR-Varanasi, have been adopted as per quoted rates on pro data basis.

13) OPERATION & MAINTENANCE

The Project after completion/commissioning shall be managed by the contractor under operation & maintenance pay grade.

14) ENVORONMENTAL IMPACT-

Environmental impact may be defined as the sum of the short term and long term effects of any proposed action (of absence of action) on man himself and on physical, biological and socio economical environmental, including the effects of policies, legislature proposal, programmes, projects and operational practices, attention needs to be paid significant adverse effects on the quality of man's life including both those that affect him directly and those that affect him indirectly through adverse effects on the environment.

BOQ - E&M
ZONE 6

KASIMABAD 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	156159.0708	Job	156,159.07
1.2		DC/RC Drilling up to 100Mtr.								
1.2.1	2.06	500 MMØ	1	65			65	271 / 1906	Rmt	176,617.39
1.2.2	2.05	450 MMØ	1	35			35	2454.948754	Rmt	85,923.19
1.3		DC/RC Drilling from 101 MT. To 200 Mtr.Deep								
1.3.1	2.09	450 MMØ	1	100			100	2114.630017	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	3158.991117	Rmt	
1.5		DC/RC Drilling from 301 MT. To 400 Mtr.Deep								
1.5.1	2.17	450 MMØ	1	0			0	3703.098394	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 200 MMØ	1	60			60	2546.43	Rmt	152,785.80
1.8.2	3.03	150 MMØ	1	96			96	1897.34	Rmt	182,144.64
1.9		MSERW Pipe slotted pipe as per IS 8110								
1.9.1	3.08	150 MMØ	1	24.00			24	2796.08	Rmt	67,105.92

1.9.2	3.11	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure			1	32249.787	Job	32,249.79
1.9.3	3.12	MS fittings such as ring & centre guide	1	180	180	471.019648	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	389.454	Rmt	23,367.24
2.1.2	4.03	150 MMØ MSERW Plane/Slotted Pipe			40	385.4596	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	442.3798	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	569.55151	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	425.932858	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	92022.9872	Job	92,022.99
3.2	6.05	Charges for Development by 400 PSI Compressor per hour			40	3267.26941	Hrs	130,690.78
3.3	6.09	Transportation, Installation Dismantling of 1 Cusec OP Unit and Yield test, water test			1	105089.6682	Job	105,089.67
3.4	6.10	Charges for Development of TW by 1 Cusec OP Unit			70	993.037798	Hr.	69,512.65
Total cost for each tubewell								2,026,313.5
Total cost for 1 tubewells								2,026,313.5
4	47	Earth filling of abandoned tubewell in Waterworks campus	0	34.23	0.00	106.8502	Cum	
Total Cost of Tubewell								2,026,313.47
Total Cost (In Lacs)								20.26

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

Regd. Office-#10, APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072
Under Jal Jivan Mission, District- Ghazipur(U.P.)

Test Report of Todar GP (Zone-6, TW-1) Tubewell under Kasimabad WSS, Block-Kasimabad Development By 250 PSI Air Compressor

Size of tube well (mm): 300 X 300 RPM 1350

Static water level (m): 7.90 Discharge by-90 'V' notch (Rectangular)

Depth of T/W (m): 95.750 Required Discharge- 550 LPM Date of testing 26-07-2023

S. N.	Pressure in kg/cm ²		Depression In mtr.	Depth of air line at the time of testing (m)	Discharge by 'V' Notch		Sand content in P.P.M.				
	Starting Pressure	Running Pressure			Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
1	8.10	7.30	8.00	91.00	7 1/4	1205	6300	3500	3300	3100	3000
2	7.30	6.70	6.00	83.00	7	1104	5800	3200	3000	2800	2700
3	4.50	4.00	5.00	55.00	6 1/2	917	5000	2800	2600	2400	2200

Remark- Recommended for further development by O.P. Unit



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

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

(Abhishek Srivastava)
Junior Engineer

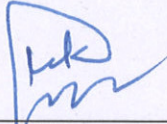
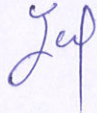
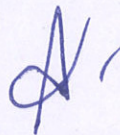
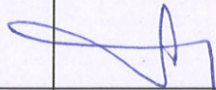
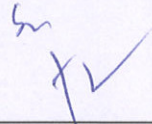
(Nitish Kumar)
Assistant Engineer

(Adarsh Verma)
Executive Engineer

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

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

Job Code:		Compressor unit	As per DPR:	400 PSI	
Block:	KASIMABAD	Capacity	As per Site:	250 PSI	
Scheme	KASIMABAD REORGANISATION	Compressor unit	As per DPR:	40	
GP	TODAR, ZONE 6	Hours	As per Site:	51:00	
Lowering Depth(mtr):	95.750	Cumm			
Lowering Date :	3-Jun-23	Gravel(cumt)	As per DPR:	45.3	
		Cumm			
		Gravel(cumt)	As per Site:	44.84	
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	19-Jul-23	7:39 AM	9:00 AM	1:21	
2		10:10 AM	11:39 AM	1:29	
3		1:00 PM	1:38 PM	0:38	
4		1:50 PM	3:00 PM	1:10	
5		4:10 PM	5:19 PM	1:09	
6	20-Jul-23	7:34 AM	8:54 AM	1:20	
7		10:10 AM	11:20 AM	1:10	
8		12:00 PM	1:19 PM	1:19	
9		2:10 PM	3:14 PM	1:04	
10		4:20 PM	5:22 PM	1:02	
11	21-Jul-23	7:39 AM	8:43 AM	1:04	
12		10:07 AM	11:39 AM	1:32	
13		12:04 PM	1:38 PM	1:34	
14		2:20 PM	3:30 PM	1:10	
15		4:00 PM	5:20 PM	1:20	
16	22-Jul-23	7:29 AM	8:10 AM	0:41	
17		10:00 AM	11:10 AM	1:10	
18		12:00 PM	1:30 PM	1:30	
19		2:00 PM	3:30 PM	1:30	
20		4:00 PM	5:20 PM	1:20	
21	23-Jul-23	8:29 AM	9:54 AM	1:25	
22		10:00 AM	11:30 AM	1:30	
23		1:00 PM	2:25 PM	1:25	
24		4:20 PM	5:30 PM	1:10	
25		6:00 PM	7:30 PM	1:30	
26	24-Jul-23	9:00 AM	10:10 AM	1:10	
27		11:00 AM	12:26 PM	1:26	
28		2:00 PM	3:29 PM	1:29	
29		4:00 PM	5:30 PM	1:30	

M/S VSAIPPL-SMC JV, Ghazipur (U.P)					
Job Code:		Compressor unit	As per DPR:	400 PSI	
Block:	KASIMABAD	Capacity	As per Site:	250 PSI	
Scheme	KASIMABAD REORGANISATION WSS	Compressor unit	As per DPR:	40	
GP	TODAR, ZONE 6	Hours	As per Site:	51:00	
Lowering Depth(mtr):	95.750	Cumm			
Lowering Date :	3-Jun-23	Gravel(cumt)	As per DPR:	45.3	
		Cumm			
		Gravel(cumt)	As per Site:	44.84	
SI No	Date	Start Time	End Time	Total Hours	Remarks
30		6:29 PM	7:34 PM	1:05	
31	25-Jul-23	10:00 AM	11:10 AM	1:10	
32		12:00 PM	12:56 PM	0:56	
33		1:30 PM	2:40 PM	1:10	
34		3:00 PM	4:02 PM	1:02	
35		5:00 PM	6:19 PM	1:19	
36		26-Jul-23	8:00 AM	9:32 AM	1:32
37	10:10 AM		11:38 AM	1:28	
38	1:30 PM		2:50 PM	1:20	
39	3:20 PM		4:45 PM	1:25	
40	5:30 PM		6:55 PM	1:25	
			Total	51:00	
Note	Due to poor quality of strata, running hours of Compressor increase beyond the DPR qty.				
					
Site Incharge	TPIA	Junior Engineer	Assistant Engineer	Exe. Engineer	
M/S VSAIPPL-SMC JV, Ghazipur (U.P)	M/s Medhaj Techno Concept Pvt. Ltd., Ghazipur	Construction Division Office(E/M), U.P. Jal Nigam(Rural), Varanasi			

Note: as per dpr worky hr is 40hr But in logsheet mentain hr is 51hr So clarificator is require approved hr. is 40hr

Jaf

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

Regd. Office-#10,APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072

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

Yield Test Report Of T.W at Kasimabad GP (Zone-6,TW-1) Tubewell under Kasimabad Reorganisation
WSS, Block-Kasimabad by 1 Cusec O.P. Unit

Size of Ventury 4" X 3"

Column Pipe Lowered: 30.00

Static water level(m): 8.10

Required Discharge(LPM)- 550 LPM

Date: 04-10-2023

S.N.	Discharge		Running Water Level (m)	Depression (m)	Sand content in P.P.M.				
	Inch	LPM			At start	After 5 min	After 10 min	After 15 min	After 20 min
1	50.00	1120	15.70	7.60	650	400	200	150	100
2	32.00	905	13.40	5.30	300	200	150	100	50
3	12.00	553	12.40	4.30	150	100	50	Tr	Cl

Remark- Recommended discharge 550 LPM L.P.M. at 4.3 m depression after running 15 minute bypass.



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

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

(Abhishek Srivastava)
Junior Engineer




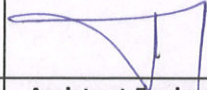
(Nitish Kumar)
Assistant Engineer

(Adarsh Verma)
Executive Engineer

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

M/S VSAIPPL-SMC JV, Ghazipur (U.P)					
Block:	VIRNO		Op unit Capacity	As per DPR:	1 cusec
Scheme	KASIMABAD REORGANISATION WSS			As per Site:	1 cusec
GP	Todar Z-6		Op unit Hours	As per DPR:	70
			Compressor Testing Date :	As per Site:	90.00 Hrs
					26-07-2023
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	22-09-2023	8:25 AM	9:54 AM	1:29	
2		10:24 AM	11:54 AM	1:30	
3		12:20 PM	1:20 PM	1:00	
4		3:46 PM	5:16 PM	1:30	
5		6:02 PM	7:21 PM	1:19	
6		7:40 PM	8:30 PM	0:50	
7	23-09-2023	8:45 AM	9:40 AM	0:55	
8		10:44 AM	11:50 AM	1:06	
9		12:50 PM	1:20 PM	0:30	
10		3:56 PM	5:18 PM	1:22	
11		6:02 PM	7:10 PM	1:08	
12		7:40 PM	8:30 PM	0:50	
13	24-09-2023	8:55 AM	9:50 AM	0:55	
14		10:34 AM	11:53 AM	1:19	
15		12:50 PM	1:20 PM	0:30	
16		3:56 PM	5:18 PM	1:22	
17		6:02 PM	7:10 PM	1:08	
18		7:40 PM	8:30 PM	0:50	
19	25-09-2023	8:15 AM	9:40 AM	1:25	
20		10:44 AM	11:50 AM	1:06	
21		12:50 PM	1:20 PM	0:30	
22		3:56 PM	5:18 PM	1:22	
23		6:02 PM	7:10 PM	1:08	
24		7:40 PM	8:34 PM	0:54	
25	26-09-2023	8:55 AM	10:16 AM	1:21	
26		10:44 AM	11:55 AM	1:11	
27		12:40 PM	1:50 PM	1:10	
28		3:56 PM	5:26 PM	1:30	
29		6:12 PM	7:20 PM	1:08	
30		7:40 PM	9:10 PM	1:30	
31	27-09-2023	8:45 AM	10:10 AM	1:25	
32		10:44 AM	11:50 AM	1:06	
33		12:50 PM	2:20 PM	1:30	
34		3:46 PM	5:16 PM	1:30	
35		6:02 PM	7:10 PM	1:08	
36		7:50 PM	9:10 PM	1:20	
37	28-09-2023	8:35 AM	10:05 AM	1:30	
38		10:44 AM	11:55 AM	1:11	
39		12:42 PM	2:12 PM	1:30	
40		3:46 PM	5:16 PM	1:30	
41		6:12 PM	7:20 PM	1:08	
42		7:40 PM	9:00 PM	1:20	
43	29-09-2023	8:45 AM	10:10 AM	1:25	
44		10:44 AM	11:50 AM	1:06	
45		12:50 PM	2:10 PM	1:20	
46		3:56 PM	5:18 PM	1:22	
47		6:02 PM	7:10 PM	1:08	
48		7:40 PM	9:00 PM	1:20	

Signature: *[Handwritten Signature]*

M/S VSAIPPL-SMC JV, Ghazipur (U.P)					
Block:	VIRNO	Op unit Capacity	As per DPR:	1 cusec	
Scheme	KASIMABAD REORGANISATION WSS	Op unit Hours	As per Site:	1 cusec	
GP	Todar Z-6	Compressor Testing Date :	As per DPR:	70	
			As per Site:	90.00 Hrs	
				26-07-2023	
SI No	Date	Start Time	End Time	Total Hours	Remarks
49	30-09-2023	8:55 AM	10:16 AM	1:21	
50		10:44 AM	11:55 AM	1:11	
51		12:40 PM	2:00 PM	1:20	
52		3:56 PM	5:26 PM	1:30	
53		6:12 PM	7:20 PM	1:08	
54		7:40 PM	9:00 PM	1:20	
55	01-10-2023	8:45 AM	10:00 AM	1:15	
56		10:44 AM	11:50 AM	1:06	
57		12:50 PM	2:10 PM	1:20	
58		3:56 PM	5:08 PM	1:12	
59		6:02 PM	7:10 PM	1:08	
60		7:40 PM	9:00 PM	1:20	
61	02-10-2023	8:45 AM	10:00 AM	1:15	
62		10:44 AM	11:50 AM	1:06	
63		12:40 PM	2:00 PM	1:20	
64		3:56 PM	5:16 PM	1:20	
65		6:12 PM	7:20 PM	1:08	
66		7:40 PM	9:00 PM	1:20	
67	03-10-2023	8:45 AM	10:10 AM	1:25	
68		10:44 AM	11:50 AM	1:06	
69		12:50 PM	2:10 PM	1:20	
70		3:56 PM	5:18 PM	1:22	
71		6:02 PM	7:10 PM	1:08	
72		7:40 PM	9:09 PM	1:29	
73	04-10-2023	8:45 AM	10:38 AM	1:53	
			Total	90:00	
			Total (Hrs)	90.00 Hrs	
					
	Site Incharge	TPIA	Junior Engineer	Assistant Engineer	Exe. Engineer
M/S VSAIPPL-SMC JV, Ghazipur (U.P)	M/s Medhaj Techno Concept Pvt. Ltd., Ghazipur	Construction Division Office(E/M) ,U.P.Jal Nigam(Rural),Varanasi			

Note) as per dpr. working hr is 70hr. But as per sheet working hr mention is 90hr. So classification requiring approval chr. is 70hr only. — 34