

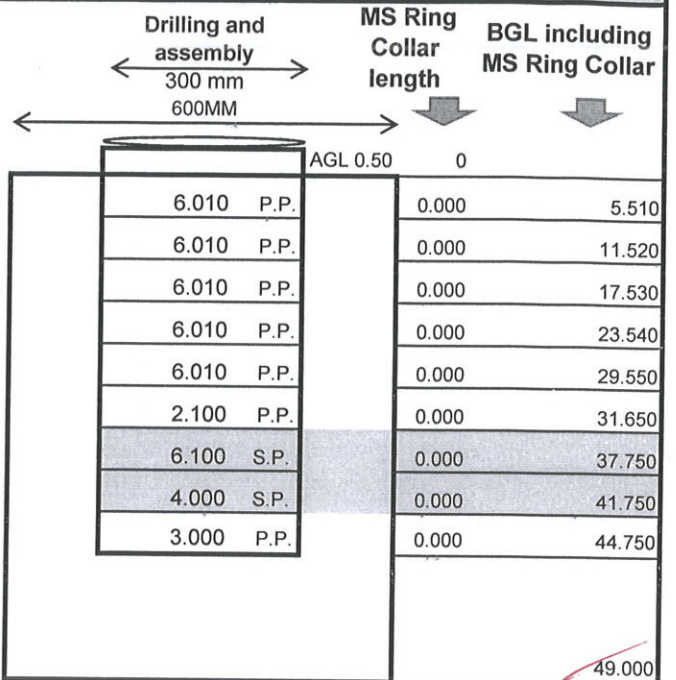
# M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Actual Strata Chart of GOVINDPUR KIRAT REORGANISATION WSS, BLOCK - MARDAH, ZONE 2, GRAM PANCHAYAT - DURKHUSHI TW 1

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

## PHYSICAL STRATA

S.No	BGL in meter		Formation
	From	to	
1	0	6	Clay
2	6	18	Clay Kankad
3	18	27	Kankad
4	27	44	Very Fine Sand
5	44	56	Kankad
6	56	72	Very Fine Sand
7	72	138	Clay Kankad
8	138	166	Very Fine Sand
9	166	190	Fine Sand



## Logging

Date-16/05/2023

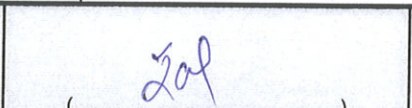
S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	20	25	5	Good
2	28	42	14	Good

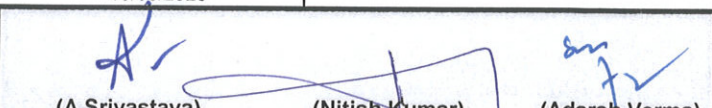
## Note-

- All Zone intermixed with thin bands of Kankar.
- The formation water is deteriorating from marginal to saline form 52 Mbgl to till depth logged.

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	600.000	LPM		
2	Clear Depth of bore 600mm	0	Mbgl	49.000	Mbgl
3	Clear Depth of bore 500mm	65	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	200	Mbgl	190.000	Mbgl
5	Plane pipe 300MM	0	m	35.150	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	10.100	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	24	m	0.000	m
11	Date of lowering			19/05/2023	

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

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

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



# AllGeo Solutions

A complete GIS, Geology and Environment Solutions

Ref. No. : AGS/EL/2023/GCT-31  
Date : 17/05/2023

## GEOPHYSICAL BOREHOLE LOGGING REPORT

Site Name : Durkhushi  
Location : 25.787352, 83.593753  
Block : Mardah  
District : Ghazipur  
State : Uttar Pradesh  
Drilling Depth : 215 Mbgl (Reported by Driller)  
Logging Depth : 190 Mbgl  
Rm/Rw : 8/10  
Date of Logging : 16-May-2023  
Logged By : Mr. Shobhit Srivastava (Wellsite Geologist)  
Logger Make : GIT  
Tubewell Drilled By : M/S VSAIPPL-SMC JV, Ghazipur, Uttar Pradesh  
Representative : M/S Durga Engineering Works

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.

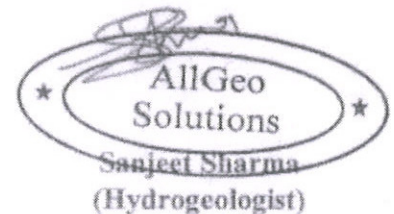
Sl No.	Depth Range (mbgl)	Thickness (m eters)	Quality Remarks (in term of Salinity)
1	20-25	5	Good
2	28-42	14 - 10	Good

Note: 1. All Zone are intermixed with thin band of kankar.

2- The formation water is deteriorating from marginal to saline form 52 Mbgl to till depth logged.

*Verified as per logs provided*

*G.Sh  
17/05/23*





अधीक्षण अभियन्ता

अधीक्षण अभियन्ता,  
महोदय.

जल जीवन मिशन कार्यक्रम अन्तर्गत पेयजल योजना ब्लॉक - मरदह, जोन 2, ग्राम पंचायत -दुर्खुशी TW1. जनपद गाजीपुर में 200x150 एम0एम0 व्यास साइज के 200/180 मीटर गहरे नलकूप का निर्माण किया जाना है एवं उक्त नलकूप से 600 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 16.05.2023 को नलकूप के बोर की इलेक्ट्रिक लॉगिंग करायी गयी, जिसका विवरण निम्नानुसार है :-

Logging					PHYSICAL STRATA			
Date-16/05/2023					S.No.	BGL in meter		Formation
S.N.	Depth Range		Thickness	Remark		From	to	
	1	20			25	5	Good	1
2	28	42	14	Good	2	6	18	Clay Kankad
Note- 1. All Zone intermixed with thin bands of Kankar. 2. The formation water is deteriorating from marginal to saline form 52 Mbgl to till depth logged.					3	18	27	Kankad
					4	27	44	Very Fine Sand
					5	44	56	Kankad
					6	56	72	Very Fine Sand
					7	72	138	Clay Kankad
					8	138	166	Very Fine Sand
					9	166	190	Fine Sand

अनुबन्ध में उपरोक्त नलकूप से 600 ली०प्र०मि० श्राव प्राप्त करने हेतु Enterance Velocity 0.015m/sec पर 24 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लॉगिंग के उपरान्त प्राप्त स्ट्रेटा के अनुसार अधिकतम 10 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 Very Fine sand का है एवं लॉगिंग रिपोर्ट के अनुसार केवल 10 मीटर स्लाटेड पाइप ही लोवर की जा सकती है, जिससे 600 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 मीटर की लम्बाई में Enterance area को बढ़ाकर आवश्यक वांछित श्राव प्राप्त करने का प्रयास किया जा सकता है। उल्लेखनीय है यदि 10 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 20.00 मीटर पाइप के बराबर आयेगी, जो Aquifer structure के दृष्टिगत उचित होगा एवं वास्तविक श्राव यील्ड टेस्ट के उपरान्त डिप्रेशन 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 (एसडब्लू०एस०एम०) द्वारा सक्षम स्तर से स्वीकृति उपरान्त नियमानुसार किया जायेगा।

अतः प्राप्त एक्वूफर के दृष्टिगत 300x300 मि०मी० व्यास साइज के 44.75 मीटर गहरे नलकूप जिसमें 10 मीटर स्लाटेड पाइप का उपयोग किया जायेगा, आपको तकनीकी स्वीकृति हेतु संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।

संलग्नक- लॉगिंग रिपोर्ट की छायाप्रति



संगणक

जूनियर इंजीनियर

सहायक अभियन्ता

अधिशासी अभियन्ता

अधीक्षण अभियन्ता

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

For Construction of 190/44.75 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 GOVINDPUR KIRAT TW No-1 (DURKHUSHI)  
Water Supply Scheme in District - Ghazipur

SL No	Item of work	Unit	Rate	Cost As Per Cover Agreement (200/180 mts. deep 200 X 150 mm. dia assembly size)		Expenditure as per Actual Work Executed at Site due to adverse Geophysical Condition (190/44.75 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
	<b>Tubewell construction:</b> Drilling of Borehole for Tubewell 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 labour etc.						
2	DC/RC Drilling up to 100 Mtr.						
3	600 MMØ	Rmt	3,241.68			49	158,842.09
4	500 MMØ	Rmt	2,717.19	65	176,617.39		
5	450 MMØ	Rmt	2,454.95	35	85,923.19	51	125,202.36
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	90	249,716.71
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			35.15	133,383.00
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			10.1	52,331.39
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	45.25	21,313.64
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			44.75	21,896.80
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				
	<b>Total Amount</b>				<b>1,289,408.35</b>		<b>951,094.85</b>
	<b>Say</b>				<b>1,289,408.00</b>		<b>951,095.00</b>

Net Savings Amount Rs. 338,313.00

Net Savings In Percentage 26.24%

  
(Company Rep.)

M/S VSAIPPL-SMC JV, Ghazipur

(TPIA Rep.)

Medhaj Techno Concept Pvt. Ltd., Ghazipur

  
Computer

(Junior En Ass. Engineer)

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

Div. Accountant

Ex. Engineer Sup. Engineer

Circle office  
(E/M), UPIN, Vns



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

Actual Strata Chart of GOVINDPUR KIRAT REORGANISATION WSS, BLOCK - MARDAH, ZONE 2, GRAM PANCHAYAT - DURKHUSHI TW 1

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

PHYSICAL STRATA			
S.No	BGL in meter		Formation
	From	to	
1	0	6	Clay
2	6	18	Clay Kankad
3	18	27	Kankad
4	27	44	Very Fine Sand
5	44	56	Kankad
6	56	72	Very Fine Sand
7	72	138	Clay Kankad
8	138	166	Very Fine Sand
9	166	190	Fine Sand

Drilling and assembly		MS Ring Collar length	BGL including MS Ring Collar
300 mm			
600MM			
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
6.010	P.P.	0.000	23.540
6.010	P.P.	0.000	29.550
2.100	P.P.	0.000	31.650
6.100	S.P.	0.000	37.750
4.000	S.P.	0.000	41.750
3.000	P.P.	0.000	44.750
			49.000

**Logging**

Date-16/05/2023

S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	20	25	5	Good
2	28	42	14	Good

**Note-**

- All Zone intermixed with thin bands of Kankar.
- The formation water is deteriorating from marginal to saline form 52 Mbgl to till depth logged.

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	600.000	LPM	49.000	Mbgl
2	Clear Depth of bore 600mm	0	Mbgl	0.000	Mbgl
3	Clear Depth of bore 500mm	65	Mbgl	190.000	Mbgl
4	Clear Depth of bore 450mm	200	Mbgl		
5	Plane pipe 300MM	0	m	35.150	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	10.100	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	24	m	0.000	m
11	Date of lowering	19/05/2023			

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

*Jal*  
**TPIA**  
Medhaj Techno Concept Pvt. Ltd., Ghazipur

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



## STATE WATER AND SANITATION MISSION, UTTAR PRADESH

Zone-2	Durkhushi	Durkhushi	Harijan	204843	6,574	911
			Harijan			
			Koiri Basti			
			Maniyarpur			
			Mishrauli			
			Rai Patti			
			Dhobiyapur			
			Sahrojpur			
			Chhawani			
			Tadiya			
			Sakkapur			
Zone-3	Harhari	Harhari	Bharauti	204844	1,154	166
			Hal Pur			
			Harhari			
			Mafi			
			Ramu			
			Nona Ka			
		Sagahiyapur				
Shadhampur	204845	432	87			
Zone-4	Barahi	Barahi	Ahirpura	204859	4,276	580
			Bansha Kali			
			Barahi			
			Barakapura			
			Bhar Pura			
			Bhita			
			Chauhan			
			Chotakapura			
			Harijan Basti			
			Harijan Basti			
			Harjan Basti			
			Hata			
			Khizir Pur			
			Jagadikapura			
		Uchava				
Maliknathpur	204857	650	101			
Zone-5	Nasaratpur	Nasaratpur	Aharauti	204858	3,876	589
			Bharauti			
			Bharauti Nai			
			Dasupura			
			Harijan Basti			
			Harijan Basti			
			Koiripura			
			Nasaratpur			
			Pachchim Ka			
			Triya			
<b>TOTAL :</b>					<b>23,741</b>	<b>3,458</b>

DACADAL DATA:



BOQ - E&M  
ZONE 2



## GOVINDPUR KIRAT REORGANISATION WATER SUPPLY SCHEME

"UNDER JAL JEEVAN MISSION"

TEHSIL - GHAZIPUR, BLOCK - MARDAH

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 MM $\phi$	1	65			65	2717.1906	Rmt	176,617.39
1.2.2	2.05	450 MM $\phi$	1	35			35	2454.948254	Rmt	85,923.19
1.3		DC/RC Drilling from 101 MT. To 200 Mtr.Deep								
1.3.1	2.09	450 MM $\phi$	1	100			100	2774.630072	Rmt	277,463.01
1.4		DC/RC Drilling from 201 MT. To 300 Mtr.Deep								
1.4.1	2.13	450 MM $\phi$	1	0			0	3158.991212	Rmt	-
1.5		DC/RC Drilling from 301 MT. To 400 Mtr.Deep								
1.5.1	2.17	450 MM $\phi$	1	0			0	3703.098394	Rmt	-
1.6	2.2	DTH Drilling upto 200.0 Mtr.Deep - 165/200 MM $\phi$ (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 MM $\phi$	1	60			60	2546.43	Rmt	152,785.80
1.9		150 MM $\phi$	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



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	32249.787	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							
2.1.2	4.03	150 MMØ MSERW Plane/Slotted Pipe				60	389.454	Rmt	23,367.24
2.2	4.06	Lowering from 100 Mtr. To 200 Mtr. Deep				40	385.4596	Rmt	15,418.38
2.2.1	4.07	150 MMØ MSERW Plane/Slotted Pipe							
2.3	4.1	Lowering from 200 Mtr. To 300 Mtr. Deep				80	442.3798	Rmt	35,390.38
2.3.1	4.11	150 MMØ MSERW Plane/Slotted Pipe							
2.4	4.14	Lowering from 300 Mtr. To 400 Mtr. Deep				0	569.55151	Rmt	-
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 3 tubewells									6,078,940.4
4	47	Earth filling of abandoned tubewell in Waterworks campus	0	34.23	0.00		106.8502	Cum	-
Total Cost of Tubewell									6,078,940.40
Total Cost (In Lacs)									60.79



# 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 Durkhisi GP (Zone-2, TW-1) Tubewell under Govindpur Kirat WSS, Block-Mardah Development By 250 PSI Air Compressor

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

Static water level (m): 10.00 Discharge by-90 'V' notch (Rectangular)

Depth of TW (m): 44.750 Required Discharge- 600 Date of testing 23-07-2023

S. N.	Pressure in kg/cm2		Depression		Depth of air line at the time of testing (m)	Discharge by 'V' Notch		Sand content in P.P.M.				
	Starting Pressure	Running Pressure	In kg/cm2	In mtr.		Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
1	2.80	2.10	0.70	7.00	40.00	7 1/4	1205	6500	3600	3400	3200	3100
2	2.00	1.40	0.60	6.00	32.00	6 1/2	917	4900	2800	2600	2400	2300

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

(.....)  
Company Repr.  
Hyderabad  
M/S VSAIPPL-SMC  
Kukatpally

(.....)  
TPIA  
Medhaj Techno Concept Pvt.

(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)**

<b>Job Code:</b>		<b>Compressor unit</b>	<b>As per DPR:</b>	<b>400 PSI</b>	
<b>Block:</b>	MARDAH	<b>Capacity</b>	<b>As per Site:</b>	<b>250 PSI</b>	
<b>Scheme</b>	GOVINDPUR KIRAT WSS	<b>Compressor unit</b>	<b>As per DPR:</b>	<b>40</b>	
<b>GP</b>	DURKHUSHI TW1, ZONE 2	<b>Hours</b>	<b>As per Site:</b>	<b>49:00</b>	
<b>Lowering Depth(mtr):</b>	<b>44.75</b>	<b>Cumm</b>			
<b>Lowering Date :</b>	<b>15-May-23</b>	<b>Gravel(cumt)</b>	<b>As per DPR:</b>	45.3	
		<b>Cumm</b>			
		<b>Gravel(cumt)</b>	<b>As per Site:</b>	38.44	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
1	16-Jul-23	7:39 AM	8:45 AM	1:06	
2		10:20 AM	11:30 AM	1:10	
3		12:10 PM	1:30 PM	1:20	
4		2:20 PM	3:10 PM	0:50	
5		4:20 PM	5:13 PM	0:53	
6	17-Jul-23	7:19 AM	8:45 AM	1:26	
7		10:10 AM	11:30 AM	1:20	
8		12:00 PM	1:20 PM	1:20	
9		2:01 PM	3:10 PM	1:09	
10		4:10 PM	5:20 PM	1:10	
11	18-Jul-23	7:29 AM	8:50 AM	1:21	
12		10:00 AM	11:30 AM	1:30	
13		12:00 PM	1:30 PM	1:30	
14		2:00 PM	3:16 PM	1:16	
15		4:00 PM	5:20 PM	1:20	
16	19-Jul-23	8:29 AM	9:54 AM	1:25	
17		10:00 AM	11:30 AM	1:30	
18		1:00 PM	2:25 PM	1:25	
19		4:20 PM	5:30 PM	1:10	
20		6:00 PM	7:30 PM	1:30	
21	20-Jul-23	9:00 AM	10:10 AM	1:10	
22		11:00 AM	12:26 PM	1:26	
23		2:00 PM	3:29 PM	1:29	

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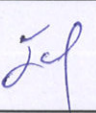

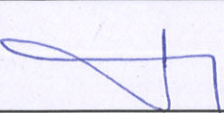
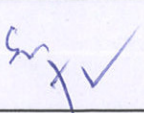


**M/S VSAIPPL-SMC JV, Ghazipur (U.P)**

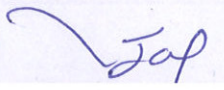
<b>Job Code:</b>		<b>Compressor unit</b>	<b>As per DPR:</b>	<b>400 PSI</b>
<b>Block:</b>	MARDAH	<b>Capacity</b>	<b>As per Site:</b>	<b>250 PSI</b>
<b>Scheme</b>	GOVINDPUR KIRAT WSS	<b>Compressor unit</b>	<b>As per DPR:</b>	<b>40</b>
<b>GP</b>	DURKHUSHI TW1, ZONE 2	<b>Hours</b>	<b>As per Site:</b>	<b>49:00</b>
<b>Lowering Depth(mtr):</b>	<b>44.75</b>	<b>Cumm</b>		
<b>Lowering Date :</b>	<b>15-May-23</b>	<b>Gravel(cumt)</b>	<b>As per DPR:</b>	<b>45.3</b>
		<b>Cumm</b>		
		<b>Gravel(cumt)</b>	<b>As per Site:</b>	<b>38.44</b>

SI No	Date	Start Time	End Time	Total Hours	Remarks
24	21-Jul-23	4:00 PM	5:10 PM	1:10	
25		6:29 PM	7:34 PM	1:05	
26		10:00 AM	11:10 AM	1:10	
27		12:00 PM	12:50 PM	0:50	
28		1:30 PM	2:40 PM	1:10	
29		3:00 PM	4:16 PM	1:16	
30		5:00 PM	6:29 PM	1:29	
31	22-Jul-23	8:00 AM	9:14 AM	1:14	
32		10:10 AM	11:40 AM	1:30	
33		1:30 PM	2:10 PM	0:40	
34		3:20 PM	4:26 PM	1:06	
35		5:30 PM	6:29 PM	0:59	
36	23-Jul-23	9:20 AM	10:30 AM	1:10	
37		11:05 AM	12:01 PM	0:56	
38		2:10 PM	3:30 PM	1:20	
39		4:06 PM	5:10 PM	1:04	
40		6:19 PM	7:24 PM	1:05	
			<b>Total</b>	<b>49:00</b>	

**Note** Due to poor quality of strata, running hours of Compressor increase beyond the DPR qty.

				
<b>Site Incharge</b>	<b>TPIA</b>	<b>Junior Engineer</b>	<b>Assistant Engineer</b>	<b>Exe. Engineer</b>
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 40hr. But in logsheet hr menton is 49hr. so classification is required. Approve hr. is 40hr





# 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 Durkhosi GP (Zone-2,TW-1) Tubewell under Govindpur Kirat WSS, Block-  
Mardah by 1 Cusec O.P. Unit

Size of Ventury 4" X 3" Column Pipe Lowered: 30.00

Static water level(m): 10.00 Required Discharge(LPM)- 600 Date: 20-08-2023

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	59.00	1211	17.10	7.10	700	300	200	150	100
2	33.00	916	15.80	5.80	500	200	150	100	50
3	14.50	602	14.10	4.10	200	100	50	Tr	Cl

**Remark-** Recommended discharge 600 L.P.M. at 4.1 m depression after running 20 minute bypass.

0

(.....)  


(.....)



(Abhishek Srivastava)

(Nitish Kumar)

(Adarsh Verma)

Company Repr.

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

TPIA

Medhaj Techno Concept Pvt.  
Ltd., Ghazipur

Junior Engineer

Assistant Engineer

Executive Engineer

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





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

Job Code:		Op unit	As per DPR:	1 Cusec
Block:	MARDAH	Capacity	As per Site:	1 Cusec
Scheme	GOVINDPUR KIRAT WSS	Op unit	As per DPR:	70
GP	DURKHUSHI TW1, ZONE 2	Hours	As per Site:	88:00
Lowering Depth(mtr):	44.750	Cumm		
Compressor Testing Date:	23-07-2023	Gravel(cum)	As per DPR:	45.3
		Cumm		
		Gravel(cum)	As per Site:	38.44

SI No	Date	Start Time	End Time	Total Hours	Remarks
1	13-08-2023	8:43 AM	9:34 AM	0:51	
2		10:44 AM	12:00 PM	1:16	
3		12:38 PM	1:50 PM	1:12	
4		3:36 PM	4:50 PM	1:14	
5		6:12 PM	7:20 PM	1:08	
6		7:50 PM	8:35 PM	0:45	
7	14-08-2023	8:35 AM	9:44 AM	1:09	
8		10:34 AM	11:55 AM	1:21	
9		12:34 PM	1:49 PM	1:15	
10		3:46 PM	5:08 PM	1:22	
11		6:02 PM	7:20 PM	1:18	
12		7:50 PM	8:35 PM	0:45	
13	15-08-2023	8:45 AM	10:16 AM	1:31	
14		10:44 AM	11:35 AM	0:51	
15		12:45 PM	1:55 PM	1:10	
16		3:46 PM	5:15 PM	1:29	
17		6:12 PM	7:20 PM	1:08	



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

Job Code:		Op unit	As per DPR:	1 Cusec
Block:	MARDAH	Capacity	As per Site:	1 Cusec
Scheme	GOVINDPUR KIRAT WSS	Op unit	As per DPR:	70
GP	DURKHUSHI TW1, ZONE 2	Hours	As per Site:	88:00
Lowering Depth(mtr):	44.750	Cumm		
Compressor Testing Date:	23-07-2023	Gravel(cum)	As per DPR:	45.3
		Cumm		
		Gravel(cum)	As per Site:	

SI No	Date	Start Time	End Time	Total Hours	Remarks
18		7:30 PM	8:20 PM	0:50	
19	16-08-2023	8:45 AM	9:40 AM	0:55	
20		10:44 AM	11:45 AM	1:01	
21		12:50 PM	1:20 PM	0:30	
22		3:56 PM	5:18 PM	1:22	
23		6:02 PM	7:20 PM	1:18	
24		7:30 PM	8:20 PM	0:50	
25		17-08-2023	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	18-08-2023	8:45 AM	10:10 AM	1:25	
32		10:34 AM	11:54 AM	1:20	
33		12:53 PM	2:22 PM	1:29	
34		3:36 PM	5:26 PM	1:50	



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

Job Code:		Op unit	As per DPR:	1 Cusec
Block:	MARDAH	Capacity	As per Site:	1 Cusec
Scheme	GOVINDPUR KIRAT WSS	Op unit	As per DPR:	70
GP	DURKHUSHI TW1, ZONE 2	Hours	As per Site:	88:00
Lowering Depth(mtr):	44.750	Cumm		
Compressor Testing Date:	23-07-2023	Gravel(cum)	As per DPR:	45.3
		Cumm		
		Gravel(cum)	As per Site:	

SI No	Date	Start Time	End Time	Total Hours	Remarks
35	19-08-2023	6:12 PM	7:20 PM	1:08	
36		7:52 PM	9:10 PM	1:18	
37		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	20-08-2023	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	
49	21-08-2023	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	

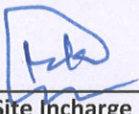
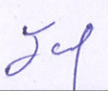

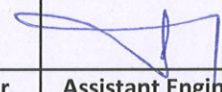
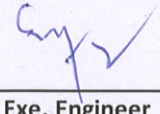


**M/S VSAIPPL-SMC JV, Ghazipur (U.P)**

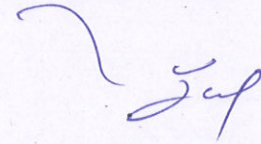
Job Code:		Op unit	As per DPR:	1 Cusec
Block:	MARDAH	Capacity	As per Site:	1 Cusec
Scheme	GOVINDPUR KIRAT WSS	Op unit	As per DPR:	70
GP	DURKHUSHI TW1, ZONE 2	Hours	As per Site:	88:00
Lowering Depth(mtr):	44.750	Cumm		
Compressor Testing Date :	23-07-2023	Gravel(cum)	As per DPR:	45.3
		Cumm		
		Gravel(cum)	As per Site:	

SI No	Date	Start Time	End Time	Total Hours	Remarks
52	21-08-2023	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	22-08-2023	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	23-08-2023	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	8:30 PM	0:50	
67		8:45 AM	10:00 AM	1:15	
68		10:44 AM	11:50 AM	1:06	

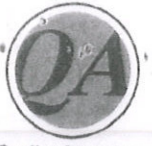


M/S VSAIPPL-SMC JV, Ghazipur (U.P)					
Job Code:		Op unit	As per DPR:	1 Cusec	
Block:	MARDAH	Capacity	As per Site:	1 Cusec	
Scheme	GOVINDPUR KIRAT WSS	Op unit	As per DPR:	70	
GP	DURKHUSHI TW1, ZONE 2	Hours	As per Site:	88:00	
Lowering Depth(mtr):	44.750	Cumm			
Compressor Testing Date:	23-07-2023	Gravel(cum)	As per DPR:	45.3	
		Cumm			
		Gravel(cum)	As per Site:		
SI No	Date	Start Time	End Time	Total Hours	Remarks
69	24-08-2023	12:50 PM	2:00 PM	1:10	
70		3:56 PM	5:18 PM	1:22	
71		6:02 PM	7:10 PM	1:08	
72		7:40 PM	8:48 PM	1:08	
				88:00	
Note	Due to poor quality of strata, running hours of OP Unit 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 working hr. mentioned is 70hr. But in logsheet provided us in which working hr. is 88hr. So clarification is required before payment. approval hr. is 70hr.







# QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

B-76, Sector-64, Gautam Buddha Nagar, Noida-201301 (Uttar Pradesh)

IAS-ANZ



M54009131N

Quality Assurance

Tel.: +91-120-4133953 • Mobile: +91-8287945370 • E-mail: admin@gateestinglaboratories.com

Website : www.qateestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN



An ISO 9001:2015, 14001:2015, 45001:2018 & ISO/IEC 17025:2017 Accredited Laboratory

## TEST CERTIFICATE

(This Certificate is not Valid without Hologram)



Test Report No : QAL/WT/230726001175  
Sample Name: : Tube well Water  
Sample Code : -  
Issued To : VSAIPPL-SMC JV  
District-Ghazipur.

Issue Date : 01/08/2023  
Sample Received On : 26/07/2023  
Reference No : VSAIPPL-SMC  
Sampling Date : 26/07/2023  
Sampling Quantity : 2 Ltr.  
Batch No./Lot No. : NA  
Date of Mfg. : NS  
Date of Exp. : NS  
Date of Starting : 26/07/2023  
Date of Completion : 01/08/2023

Sample Submitted By : VSAIPPL-SMC JV  
Mfg. By : NA  
Sample Description : Physical Chemical & Heavy Metals Analysis of Water  
Location : Distt-Ghazipur Block-Mardah GP-Durkushi

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1	Color	Hazen	1	5 max.	15 max.	IS : 3025 (P-4)
2	Turbidity	NTU	0.2	1 max.	5 max.	IS : 3025 (P-10)
3	pH value at 25°C	-	7.46	6.5-8.5	No Relaxation	IS : 3025 (P-11)
4	Total Hardness as CaCO <sub>3</sub>	mg/l	142	200 max	600 max.	IS : 3025 (P-21)
5	Calcium (as Ca)	mg/l	32	75 max	200 max	IS : 3025 (P-40)
6	Iron (as Fe)	mg/l	0.027	1 max	-	IS : 3025 (P-53)
7	Magnesium (as Mg)	mg/l	14.5	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	20	250 max.	1000 max.	IS : 3025 (P-32)
9	Free Residual Chlorine	mg/l	NIL	0.2 max.	1 Max	IS : 3025 (P-26)
10	Sulphates (as SO <sub>4</sub> )	mg/l	6.6	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	110	200 max.	600 max.	IS : 3025 (P-23)
12	Fluoride (as F)	mg/l	0.024	1 max.	1.5 max.	IS : 3025 (P-60)
13	Total Dissolved Solid (TDS)	mg/l	476	500 max.	2000 max.	IS : 3025 (P-16)
14	Total Coliform Bacteria	MPN/10 0 ml	Absent	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample	IS : 1622
15	E coli	MPN/10 0 ml	Absent	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample	IS : 1622

SAMPLE COLLECTED BY US

\*\*\*End of Report\*\*\*

Upendra Kumar  
Technical manager  
Authorized By (Sign & Stamp):

Dipak Kumar  
Quality Manager  
Approved By (Sign & Stamp):

Note: a) This report is not reproduced wholly or in partially and forbidden to be used as an evidence in the court of law and ought not be used in any advertisement media without our special permission in writing. b) The data reported in this TEST CERTIFICATE are valid at the time of and under the stipulated conditions of measurement and the test results are applicable to those items of product which have been tested and do not apply to the other products even though declared to be identical. c) Except by special arrangement, the test items will not be retained by the company not more than one month. d) Report refers to the sample received by M/s QA Testing Laboratories Pvt. Ltd. e) This report is valid for the tested sample only.





# QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

B-76, Sector-64, Gautam Buddha Nagar, Noida-201301 (Uttar Pradesh)

IAS-ANZ



M5400913LN

Quality Assurance

Tel.: +91-120-4133953 • Mobile: +91-8287945370 • E-mail: admin@qatestinglaboratories.com

Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN



An ISO 9001:2015, 14001:2015, 45001:2018 & ISO/IEC 17025:2017 Accredited Laboratory

## TEST CERTIFICATE

(This Certificate is not Valid without Hologram)



Test Report No : QAL/WT/230726001175

Issue Date : 01/08/2023

Sample Name : Tube well Water

Sample Received On : 26/07/2023

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO <sub>3</sub> )	mg/l	0.33	45 max	No Relaxation	IS : 3025 (P-34)
17	Copper (as Cu)	mg/l	ND	0.05 max	1.5 max	IS : 3025 (P-42)
18	Manganese (as Mn)	mg/l	0.016	0.1 max	0.3 max	IS : 3025 (P-59)
19	Mercury (as Hg)	mg/l	ND	0.001 max	No Relaxation	IS : 3025 (P-48)
20	Cadmium (as Cd)	mg/l	ND	0.003 max	No Relaxation	IS : 3025 (P-41)
21	Selenium (as Se)	mg/l	ND	0.01 max	No Relaxation	IS : 3025 (P-56)
22	Total Arsenic (as As)	mg/l	ND	0.01 max	0.05 max	IS : 3025 (P-37)
23	Lead (as Pb)	mg/l	ND	0.01 max	No Relaxation	IS : 3025 (P-47)
24	Zinc (as Zn)	mg/l	0.014	5 max	15 max	IS : 3025 (P-49)
25	Cobalt	mg/l	ND	-	-	IS : 3025 (P-2)
26	Aluminium (as Al)	mg/l	ND	0.03 max	0.2 max	IS : 3025 (P-55)
27	Boron (as B)	mg/l	0.015	0.5 max	1.0 max	IS : 3025 (P-57)
28	Barium (as Ba)	mg/l	0.013	0.7 max	No Relaxation	IS:13428
29	Silver (as Ag)	mg/l	ND	0.1 max	No Relaxation	IS:13428
30	Molybdenum (as Mo)	mg/l	ND	0.07 max	No Relaxation	IS : 3025 (P-2)
31	Nickel (as Ni)	mg/l	ND	0.02 max	No Relaxation	IS : 3025 (P-54)
32	Total Chromium (as Cr)	mg/l	ND	0.05 max	No Relaxation	IS : 3025 (P-52)
33	Antimony (as Sb)	mg/l	ND	-	-	IS : 3025 (P-2)

Note: ND=Not Detected

SAMPLE COLLECTED BY US

\*\*\*End of Report\*\*\*

Upendra Kumar  
Technical manager  
Authorized by (Sign & Stamp):

Deep Kumar  
Quality Manager  
Approved By (Sign & Stamp):

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