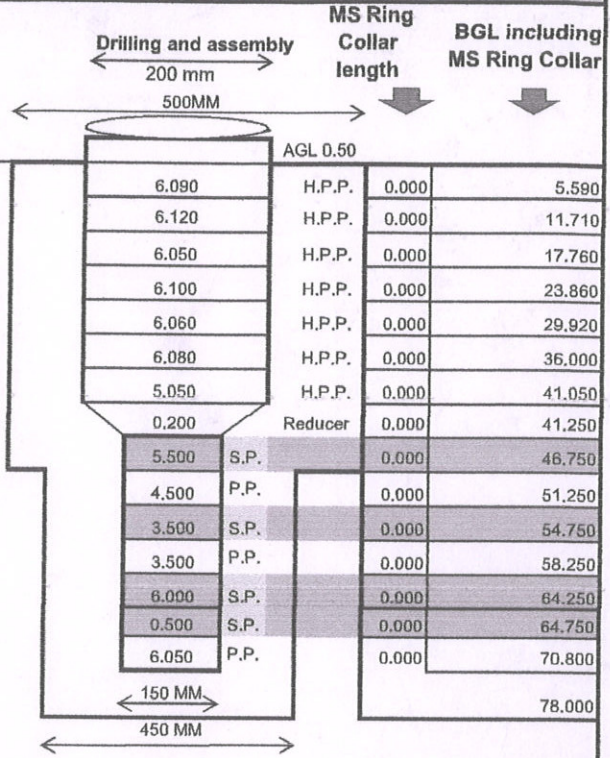


# M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Actual Strata Chart of ARSADPUR(JANGIPUR) REORGANISATION WSS,BLOCK - BIRNO,ZONE 1,GRAM PANCHAYAT - ARSADPUR T.W- 1 Under Jal Jeevan Mission,District- Ghazipur(U.P.)

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	12	Clay
2	12	18	Kankad Clay
3	18	36	Very fine Sand with Kankad
4	36	40	Very Very fine Sand with Kankad
5	40	66	Very fine Sand with Kankad
6	66	90	Kankad Clay
7	90	98	Very fine Sand with Kankad
8	98	118	Kankad Clay
9	118	154	Very fine Sand with Kankad



## Logging Report

Date-02.08.2023

S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	19	23	4	Good
2	28	35	7	Good
3	41	47	6	Good
4	51	55	4	Good
5	58	65	7	Good
6	92	96	4	Moderate

### Note-

1. Fine bands of kankar are intermixed with almost all the zones.
2. Zone Sl. No. 2&3 are highly intermixed with fine bands of kankar.
3. Quality of ground water is deteriorating marginal to saline below 118 m bgl to till depth logged.
4. Please ensure pre-monsoon water level before lower the well assembly.

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	455.000	LPM		
2	Cear Depth of bore 600mm	0	Mbgl	0.000	Mbgl
3	Cear Depth of bore 500mm	65	Mbgl	65.000	Mbgl
4	Clear Depth of bore 450mm	360	Mbgl	154.000	Mbgl
5	Plane pipe 300MM	0	m	0.000	m
6	Plane pipe 200MM	60	m	41.550	m
7	Plane pipe 150MM	258	m	14.050	m
8	Slotted pipe 300MM	0	m	0.000	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	12	m	15.500	m
11	Date of lowering			09.08.2023	

(.....)  
Company Repre.

M/S VSAIPPL-SMC

(.....)  
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



# 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 GP-Arsadpur TW1 ,Zone 1 ,Block - Birno, Scheme- Arsadpur(Jangipur) Reorganisation WSS, Developed by 250 PSI Compressor

Size of tube well (mm):		200	X	150	RPM		1300								
Static water level (m):		10.00			Discharge by-90 'V' notch (Rectangular)										
Depth of TW (m):		70.800			Date: of testing			18-08-2023							
S. N.	Pressure in kg/cm2		Depression		Discharge by 'V' Notch			Sand content in P.P.M.							
	Starting Pressure	Running Pressure	In kg/cm2	In mtr.	Inch	LPM	At start								
1	4.70	3.90	0.80	8.00	6 3/4	1008	6300	After 5 min	3500	After 10 min	3300	After 15 min	3100	After 20 min	3000
2	4.00	3.30	0.70	7.00	6 1/4	831	5400	After 5 min	3000	After 10 min	2800	After 15 min	2600	After 20 min	2500
3	3.00	2.40	0.60	6.00	6	751	4400	After 5 min	2500	After 10 min	2300	After 15 min	2100	After 20 min	1900

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.)

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 Arsadpur GP (Zone-1, TW-1) Tubewell under Arsadpur(Jangipur) Village WSS,  
Block-Birno by 1 Cusec O.P. Unit

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

Static water level(m): 7.30 Required Discharge(LPM)- 455 LPM Date: 11-12-2023

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	40.00	1007	14.80	7.50	600	300	200	150	100
2	22.00	746	13.20	5.90	400	200	150	100	50
3	8.00	462	11.30	4.00	100	50	Tr	Tr	Cl

Remark- Recommended discharge 455 LPM L.P.M. at 4 m depression after running 20 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




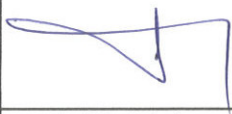
**M/S VSAIPPL-SMC JV, Ghazipur (U.P)**

<b>Block:</b>	VIRNO		<b>Op unit Capacity</b>	<b>As per DPR:</b>	1 cusec
				<b>As per Site:</b>	1 cusec
<b>Scheme</b>	ARSADPUR(JANGIPUR) REORGANISATION WSS		<b>Op unit Hours</b>	<b>As per DPR:</b>	100
<b>GP</b>	Arsadpur Z-1,T.W-1			<b>As per Site:</b>	98.51 Hrs
	<b>Compressor Testing Date :</b>			<b>18-08-2023</b>	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
1	30-11-2023	08:24:00	09:53:00	1:29	
2		10:24:00	11:52:00	1:28	
3		12:21:00	13:39:00	1:18	
4		14:45:00	16:16:00	1:31	
5		17:02:00	18:43:00	1:41	
6		19:40:00	21:31:00	1:51	
7		22:10:00	23:30:00	1:20	
8	01-12-2023	00:11:00	01:45:00	1:34	
9		08:00:00	09:54:00	1:54	
10		10:13:00	11:36:00	1:23	
11		12:27:00	13:42:00	1:15	
12		14:46:00	16:13:00	1:27	
13		17:11:00	18:48:00	1:37	
14		19:40:00	21:30:00	1:50	
15		22:00:00	23:47:00	1:47	
16		00:11:00	01:46:00	1:35	
17		08:27:00	09:55:00	1:28	
18	02-12-2023	10:24:00	11:54:00	1:30	
19		12:20:00	13:55:00	1:35	
20		15:46:00	17:16:00	1:30	
21		18:04:00	19:23:00	1:19	
22		19:40:00	21:30:00	1:50	
23	03-12-2023	08:25:00	09:54:00	1:29	
24		10:24:00	11:54:00	1:30	
25		12:20:00	13:40:00	1:20	
26		14:46:00	16:16:00	1:30	
27		17:02:00	18:45:00	1:43	
28		19:40:00	21:30:00	1:50	
29		22:10:00	23:30:00	1:20	
30		00:10:00	01:45:00	1:35	
31	04-12-2023	08:45:00	09:40:00	0:55	
32		10:44:00	11:50:00	1:06	
33		12:50:00	13:20:00	0:30	
34		15:56:00	17:18:00	1:22	
35		18:06:00	19:10:00	1:04	
36		19:40:00	20:32:00	0:52	
37	05-12-2023	08:55:00	09:50:00	0:55	
38		10:34:00	11:53:00	1:19	
39		12:50:00	13:20:00	0:30	
40		15:53:00	17:18:00	1:25	
41		18:02:00	19:16:00	1:14	
42		19:40:00	20:30:00	0:50	



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

<b>Block:</b>	VIRNO		<b>Op unit Capacity</b>	<b>As per DPR:</b>	<b>1 cusec</b>
				<b>As per Site:</b>	<b>1 cusec</b>
<b>Scheme</b>	ARSADPUR(JANGIPUR) REORGANISATION WSS		<b>Op unit Hours</b>	<b>As per DPR:</b>	<b>100</b>
<b>GP</b>	Arsadpur Z-1,T.W-1			<b>As per Site:</b>	<b>98.51 Hrs</b>
	<b>Compressor Testing Date :</b>			<b>18-08-2023</b>	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
43	06-12-2023	08:15:00	09:40:00	1:25	
44		10:44:00	11:50:00	1:06	
45		12:50:00	13:20:00	0:30	
46		15:56:00	17:18:00	1:22	
47		18:02:00	19:10:00	1:08	
48		19:40:00	20:34:00	0:54	
49	07-12-2023	08:55:00	10:16:00	1:21	
50		10:44:00	11:55:00	1:11	
51		12:40:00	13:50:00	1:10	
52		15:56:00	17:26:00	1:30	
53		18:12:00	19:20:00	1:08	
54	19:40:00	21:10:00	1:30		
55	08-12-2023	08:45:00	10:10:00	1:25	
56		10:44:00	11:50:00	1:06	
57		12:50:00	14:20:00	1:30	
58		15:46:00	17:16:00	1:30	
59		18:02:00	19:15:00	1:13	
60		19:50:00	21:10:00	1:20	
61	09-12-2023	08:35:00	10:05:00	1:30	
62		10:46:00	11:55:00	1:09	
63		12:42:00	14:11:00	1:29	
64		15:44:00	17:16:00	1:32	
65		18:12:00	19:21:00	1:09	
66	19:41:00	21:00:00	1:19		
67	10-12-2023	08:35:00	10:05:00	1:30	
68		10:44:00	11:57:00	1:13	
69		12:42:00	14:12:00	1:30	
70		15:47:00	17:16:00	1:29	
71	11-12-2023	18:12:00	19:21:00	1:09	
72		08:37:00	10:05:00	1:28	
73		10:44:00	11:58:00	1:14	
			<b>Total</b>	<b>98:31</b>	
			<b>Total (Hrs)</b>	<b>98.51 Hrs</b>	
					
	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		





# QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

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

Quality Assurance

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

Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN

IAS-ANZ



M54009131N



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

## TEST CERTIFICATE

(This Certificate is not Valid without Hologram)



Test Report No : QAL/WT/240111002555  
Sample Name: : Tube Well Water  
Sample Code : -  
Issued To : VSAIPPL-SMC JV  
District-Ghazipur.

Issue Date : 18/01/2024  
Sample Received On : 11/01/2024  
Reference No : VSAIPPL-SMC/UPJN/23-24/64  
Sampling Date : 11/01/2024  
Sampling Quantity : 2Ltr.  
Batch No./Lot No. : NA  
Date of Mfg. : NS  
Date of Exp. : NS  
Date of Starting : 11/01/2024  
Date of Completion : 18/01/2024

Sample Submitted By : VSAIPPL-SMC JV

Mfg. By : NA

Sample Description : Physical, Chemical & Heavy Metals Analysis Of Water

Location : Distt.-Ghazipur Block-Birno GP-Arsadpur TW-1

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	0.4	1 max.	5 max.	IS : 3025( P-10)
3	pH value at 25°C	-	7.33	6.5-8.5	No Relaxation	IS : 3025 (P-11)
4	Total Hardness as CaCO3	mg/l	154	200 max	600 max.	IS : 3025 (P-21)
5	Calcium (as Ca)	mg/l	38.1	75 max	200 max	IS : 3025 (P-40)
6	Iron (as Fe)	mg/l	0.022	1 max	-	IS : 3025 (P-53)
7	Magnesium (as Mg)	mg/l	14.3	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	19	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 SO4)	mg/l	6.6	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO3)	mg/l	112	200 max.	600 max.	IS : 3025 (P-23)
12	Fluoride (as F)	mg/l	0.028	1 max.	1.5.max.	IS : 3025 (P-60)
13	Total Dissolved Solid (TDS)	mg/l	362	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):

Dileep 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)

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

Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN

IAS-ANZ



M54009131N



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



## TEST CERTIFICATE (This Certificate is not Valid without Hologram)

Test Report No : QAL/WT/240111002555

Issue Date : 18/01/2024

Sample Name : Tube Well Water

Sample Received On : 11/01/2024

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO3)	mg/l	0.30	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	0.014	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	0.026	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	0.010	0.5 max	1.0 max	IS : 3025 (P-57)
28	Barium (as Ba)	mg/l	0.014	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):

**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.



# 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:K- 73

Dated: 03-08-2023

## GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Arasadpur  
Block: Birno  
District: Ghazipur  
State: Uttar Pradesh  
Date of Logging: 02-08-2023  
Drilling Depth: 360.0 m bgl  
Logging Depth: 154.0 m bgl  
Rm – 14.0  $\Omega$ m Rw – 17.0  $\Omega$ m

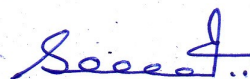
Borehole Drilled by: M/s VSAIPPL, Ghazipur, Uttar Pradesh.

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 (meter)	Remark (Quality of Aquifer Water)
1.	19 – 23	04	Good
2.	28 – 35	07	Good
3.	41 – 47	06	Good
4.	51 – 55	04	Good
5.	58 – 65	07	Good
6.	92 – 96	04	Moderate

- Note: 1. Fine bands of kankar are intermixed with almost all the zones.  
2. Zone Sl. No. 2 & 3 are highly intermixed with fine bands of kankar.  
3. Quality of Ground water is deteriorating marginal to saline below 118.0 m bgl to till depth logged.  
4. Please ensure pre-monsoon water level before lower the well assembly.

For Geo Instruments & Technic's

  
(S. Shukla)