

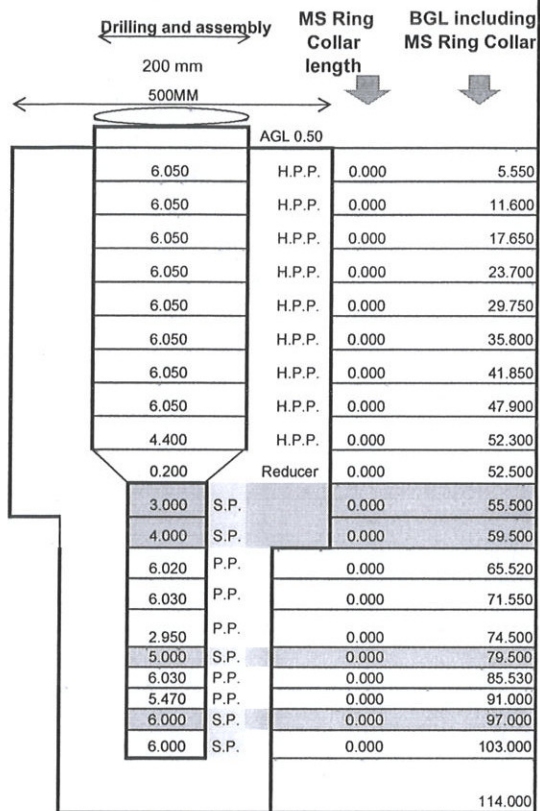
M/S VSAIPPL-SMC JV, Ghazipur (U.P)
Actual Strata Chart of RANEEPUR REORGANISATION WATER SUPPLY SCHEME, BLOCK-MARDAH ZONE-1, GRAM PANCAHYAT- RANEEPUR TW 1
 Under Jal Jeevan Mission, District- Ghazipur (U.P.)

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	10	22	Clay
2	22	49	Medium Sand
3	49	90	Kankad with Very Fine
4	90	110	Very Fine Sand
5	110	150	Sandy Clay
6	150	160	Kankad Clay


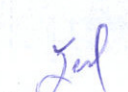


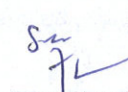
Logging Report
29.06.2023

S.N.	Depth Range	Thickn ess	Remark
1	25 29	4	Good
2	52 60	8	Good
3	70 73	3	Good
4	74 80	6	Good
5	90 98	8	Good

1. The water quality for these zones is given as per our logger's response and calibration.
 2. Clay Kankar Intercalations present from 102m to 118m BGL.
 3. Water Quality Deteriorated from 120m BGI till Depth Log.



DETAILS	AS PER DPR	ACTUAL
1 Proposed Discharge	450.000 LPM	
2 Clear Depth of bore 600mm	0 Mbgl	
3 Clear Depth of bore 500mm	65 Mbgl	57.000 Mbgl
4 Clear Depth of bore 450mm	200 Mbgl	160.000 Mbgl
5 Plane pipe 300MM	0 m	0.000 m
6 Plane pipe 200MM	60 m	52.800 m
7 Plane pipe 150MM	102 m	32.500 m
8 Reducer 200x150 MM		0.200 m
9 Slotted pipe 300MM	0 m	0.000 m
10 Slotted pipe 200MM	0 m	0.000 m
11 Slotted pipe 150MM	18 m	18.000 m
12 Date of lowering	06.07.2023	

 Company Repr. M/S VSAIPPL-SMC	 (.....) TPIA	 (A. Srivastava) Junior Engineer	 (Nitish Kumar) Assistant Engineer	 (Adarsh Verma) Exe. Engineer
	Medhaj Techno Concept Pvt. Ltd., Ghazipur	Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi		

Geophysical Well Logging Report

SOILTECH
(INDIA) PRIVATE LIMITED
GROUND ENGINEERS & CONSULTANTS

Reference No: SIPL/ELOG/2023/128

Company: VSAIPPL-SMC JV	Report Date 29th June 2023
GP: RANEELPUR L-1	Logging Date 29th June 2023
Block: MARDA	Drilled Depth (m): 204 (As informed by Driller)
District: Ghazipur State: Uttar Pradesh	Logged Depth (m): 160
Log Measured From Ground Level / Plate	Resistivity
East / Long: 83.6035160 North / Lat: 25.7044910	Mud-Rm (Ωm) 12.2 Water Rw (Ωm) 12

REPORT

Based on the interpretation of Geophysical Logging Record Parameter of Self Potential (SP), Long Normal (N-64"), Short Normal (N-16"), Natural Gamma and single point Resistance (SPR) log data, the given borehole formation Granular zone deciphered with respect of salinity and Resistivity.

Sr. No.	Depth Range(BGL)		Thickness (M)	Quality of aquifer water	Remarks
	From (m)	To(m)			
1	25	29	4	Good	
2	52	60	4	good	
3	70	73	3	Good	
4	74	80	6	Good	
5	90	98	8	Good	

- Notes:**
1. The water quality for these zones is given as per our logger's response and calibration
 2. Clay Kankar Intercalations present from 102m to 118m BGL
 3. Water Quality Deteriorated from 120m BGI till Depth Log

for Soiltech (India) Pvt. Ltd

Comments BB Prashant Constructions Pvt. Ltd.
7004886116

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 Raneepur GP (Zone-1, TW-1) Tubewell under Raneepur WSS, Block-Mardha Development By 250 PSI Air Compressor

Size of tube well (mm): 200 X 150 RPM 1300

Static water level (m): 8.10

Discharge by-90 'V' notch (Rectangular)

Date of testing 07-08-2023

Required Discharge- 450 LPM

S. N.	Pressure in kg/cm ²		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	In mtr.		Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
1	8.10	7.40	0.70	7.00	91.00	6 3/4	1008	6200	3400	3200	3000	2900
2	6.50	5.90	0.60	6.00	75.00	6 1/4	831	5500	3100	2900	2700	2600
3	4.30	3.80	0.50	5.00	53.00	6	751	5100	2900	2700	2500	2300

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:	MARDAH	Capacity	As per Site:	250 PSI	
Scheme	RANEELPUR REORGANISATION SCHEME	Compressor unit	As per DPR:	40	
GP	RANEELPUR TW1, ZONE 1	Hours	As per Site:	49:00	
Lowering Depth(mtr):	103.000	Cumm			
Lowering Date :	6-Jul-23	Gravel(cumt)	As per DPR:	45.342	
		Cumm			
		Gravel(cumt)	As per Site:	36.87	
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	30-Jul-23	7:28 AM	8:28 AM	1:00	
2		10:23 AM	11:12 AM	0:49	
3		12:10 PM	1:35 PM	1:25	
4		2:00 PM	3:20 PM	1:20	
5		4:00 PM	5:30 PM	1:30	
6	31-Jul-23	7:29 AM	8:20 AM	0:51	
7		10:00 AM	11:10 AM	1:10	
8		12:00 PM	1:00 PM	1:00	
9		2:00 PM	3:10 PM	1:10	
10		4:00 PM	5:00 PM	1:00	
11	1-Aug-23	7:19 AM	8:24 AM	1:05	
12		10:20 AM	11:30 AM	1:10	
13		12:07 PM	1:08 PM	1:01	
14		2:00 PM	3:15 PM	1:15	
15		4:00 PM	5:00 PM	1:00	
16	2-Aug-23	8:29 AM	9:04 AM	0:35	
17		10:00 AM	11:20 AM	1:20	
18		1:00 PM	2:00 PM	1:00	
19		4:20 PM	5:10 PM	0:50	
20		6:00 PM	7:10 PM	1:10	
21	3-Aug-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	
24		4:00 PM	5:10 PM	1:10	
26	4-Aug-23	10:00 AM	11:10 AM	1:10	
27		12:00 PM	12:40 PM	0:40	
28		1:30 PM	2:10 PM	0:40	
29		3:00 PM	4:16 PM	1:16	

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 Raneepur GP (Zone-1, TW-1) Tubewell under Raneepur Reorganisation WSS,
Block-Mardha by 1 Cusec O.P. Unit

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

Static water level(m): 8.20 Required Discharge(LPM)- 450 LPM Date: 12-10-2023

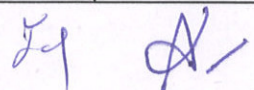
S.N.	Discharge		Running Water Level (m)	Depression (m)	Sand content in P.P.M.				
	Inch	LPM			At start	After 5 min	After 10 min	After 15 min	After 20 min
1	38.00	984	15.00	6.80	550	300	200	150	100
2	22.00	746	13.40	5.20	300	200	150	100	50
3	7.50	450	12.30	4.10	100	50	Tr	Cl	Cl

Remark- Recommended discharge 450 LPM L.P.M. at 4.1 m depression after running 15 minute bypass.




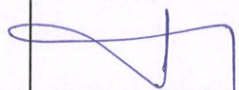


(.....) (Abhishek Srivastava) (Nitish Kumar) (Adarsh Verma)
Junior Engineer Assistant Engineer Executive Engineer
TPIA
Medhaj Techno Concept Pvt.
Ltd., Ghazipur
Division Office (E&M), U.P.-Jal Nigam(Rural), Varanasi

M/S VSAIPPL-SMC JV, Ghazipur (U.P)					
Block:	KASIMABAD	Op unit Capacity	As per DPR:	1 cusec	
			As per Site:	1 cusec	
Scheme	RANEELPUR REORGANISATION WSS	Op unit Hours	As per DPR:	70	
			As per Site:	90.00 Hrs	
GP	Raneepur Z-1,T.W-1	Compressor Testing Date :		14-08-2023	
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	30-09-2023	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	01-10-2023	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	02-10-2023	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	03-08-2023	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	04-10-2023	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	05-10-2023	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	06-10-2023	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	07-10-2023	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		


 Note:- As per dpa work hrs mentioned is 70hrs. But in logsheet mentioned hrs is 90hrs. So classification requiring. Approval hrs is 70hrs only.



M/S VSAIPPL-SMC JV,Ghazipur (U.P)					
Block:	KASIMABAD	Op unit Capacity	As per DPR:	1 cusec	
			As per Site:	1 cusec	
Scheme	RANEELPUR REORGANISATION WSS	Op unit Hours	As per DPR:	70	
			As per Site:	90.00 Hrs	
GP	Raneepur Z-1,T.W-1	Compressor Testing Date :			14-08-2023
SI No	Date	Start Time	End Time	Total Hours	Remarks
49	08-10-2023	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	09-10-2023	7:40 PM	9:00 PM	1:20	
55		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	10-10-2023	6:02 PM	6:28 PM	0:26	
60		8:45 AM	10:00 AM	1:15	
61		10:44 AM	11:50 AM	1:06	
62		12:40 PM	2:00 PM	1:20	
63		3:56 PM	5:16 PM	1:20	
64	11-10-2023	6:12 PM	7:20 PM	1:08	
65		8:45 AM	10:10 AM	1:25	
66		10:44 AM	11:50 AM	1:06	
67		12:50 PM	2:10 PM	1:20	
68		3:56 PM	5:18 PM	1:22	
69	12-10-2023	6:02 PM	7:10 PM	1:08	
70		8:45 AM	10:10 AM	1:25	
71		10:44 AM	11:50 AM	1:06	
72		12:50 PM	2:10 PM	1:20	
73		4:05 PM	5:18 PM	1:13	
74	12-10-2023	6:02 PM	7:13 PM	1:11	
75		7:40 PM	8:09 PM	0:29	
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		



Quality Assurance

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



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/230821001482 Issue Date : 25/08/2023
Sample Name: : Tube well Water Sample Received On : 18/08/2023
Sample Code : - Reference No : VSAIPPL-SMC/UPJN/23-24
Issued To : VSAIPPL-SMC JV Sampling Date : 18/08/2023
District-Ghazipur. Sampling Quantity : 2 Ltr.
Batch No./Lot No. : NA
Date of Mfg. : NS
Sample Submitted By : VSAIPPL-SMC JV Date of Exp. : NS
Mfg. By : NA Date of Starting : 18/08/2023
Sample Description : Physical, Chemical & Heavy Metals Analysis Of Water Date of Completion : 25/08/2023
Location : Distt-Ghazipur Block-Mardah GP-Raneepur

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	-	7.76	6.5-8.5	No Relaxation	IS : 3025 (P-11)
4	Total Hardness as CaCO3	mg/l	188	200 max	600 max.	IS : 3025 (P-21)
5	Calcium (as Ca)	mg/l	56.1	75 max	200 max	IS : 3025 (P-40)
6	Iron (as Fe)	mg/l	0.034	1 max	-	IS : 3025 (P-53)
7	Magnesium (as Mg)	mg/l	11.8	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	24.0	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	8.6	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO3)	mg/l	162	200 max.	600 max.	IS : 3025 (P-23)
12	Fluoride (as F)	mg/l	0.036	1 max.	1.5 max.	IS : 3025 (P-60)
13	Total Dissolved Solid (TDS)	mg/l	420	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):

Upendra 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.



Quality Assurance

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

JAS-ANZ



M5400913IN



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/230821001482

Issue Date : 25/08/2023

Sample Name: : Tube well Water

Sample Received On : 18/08/2023

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO ₃)	mg/l	0.38	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	0.022	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	0.024	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	0.012	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):

Dilip 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.