

**M/S VSAIPPL-SMC JV, Ghazipur (U.P)**  
**Actual Strata Chart of BHARSAR REORGANISATION WSS, BLOCK - BIRNO, ZONE 1, GRAM PANCHAYAT - BHARSAR T.W- 1**  
 Under Jal Jeevan Mission, District- Ghazipur(U.P.)

S.No.	BGL in meter		Formation	Drilling and assembly 200 mm	MS Ring Collar length	BGL including MS Ring Collar	
	From	to					
1	0	8	Clay	500MM	AGL 0.50	0.000	
2	8	40	Kankad				5.520
3	40	62	Kankad Clay				11.530
4	62	80	Very Fine Sand with Kankad				17.550
5	80	86	Kankad Clay				23.570
6	86	94	Very Very Fine Sand with Kankad				29.590
7	94	106	Fine Sand with Kankad				35.600
8	106	122	Kankad Clay				41.620
9	122	130	Very Fine Sand with Kankad				47.630
10	130	136	Kankad Clay				53.650
11	136	200	Kankad With Very Fine Sand				59.660
12	200	208	Kankad Clay				59.860
13	208	242	Very Fine Sand with Kankad				65.870
14	242	266	Kankad Clay				71.900
15	266	284	Kankad With Fine Sand				77.920
				83.930			
				89.960			
				95.250			
				101.250			
				102.750			
				108.770			
				114.800			
				120.820			
				123.250			
				128.750			
				131.750			
				146.000			

**Logging Report**  
Date-07.09.2023

S.N.	Depth Range		Thickness	Remark
	From	to		
1	10	15	5	Good
2	17	21	4	Good
3	26	32	6	Moderate
4	36	39	3	Moderate
5	87	92	5	Good
6	95	103	8	Good
7	123	129	6	Moderate
8	208	212	4	Moderate
9	214	218	4	Moderate
10	224	230	6	Moderate
11	236	240	4	Moderate
12	268	272	4	Moderate
13	274	278	4	Moderate

Note-  
 1. Fine band of kankar are intermixed with almost all the zones.  
 2. Quality of groundwater is deteriorating to marginal-sline at depth 64 to 84 mgl and 135.0 to 206.0 mgl  
 3. Please ensure pre-monsoon water level before lowering the well assembly.

DETAILS		AS PER DPR	ACTUAL
1	Proposed Discharge	350 LPM	
2	Clear Depth of bore 600mm	0 Mbg	0.000 Mbg
3	Clear Depth of bore 500mm	65 Mbg	65.000 Mbg
4	Clear Depth of bore 450mm	295 Mbg	354.000 Mbg
5	Plane pipe 300MM	0 m	0.000 m
6	Plane pipe 200MM	60 m	60.160 m
7	Plane pipe 150MM	258 m	58.890 m
	Reducer 200 X 150 MM		0.200 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	13.000 m
11	Date of lowering		15.09.2023

 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 Niqam(Rural),Varanasi	 (Nitish Kumar) Assistant Engineer	 (Adarsh Verma) Exe. Engineer
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# JALARAM BOREWELL TESTING

2, Sahjanand Market, Opposite Khodiyar Restaurant,  
Highway, Mehsana, Gujarat -384002

Ref: UP/38/09/2023

Dated: 08-09-2023

## GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Bharsar Zone - I

Block: Birno

District: Ghazipur

State: Uttar Pradesh

Date of Logging: 07-09-2023

Drilling Depth: 360.0 m bgl

Logging Depth: 354.0 m bgl

Borehole Drilled by: M/S VSAIPPL-SMC-JV, Ghazipur, U.P.

$Q = 350$   
 $60 + 250 + 12$   
 $200 \times 150$

Based on the interpretation of Self Potential (SP), Short Normal (N - 16"), Long Normal (N - 64") and Lateral 6" Geophysical Logs, following information/granular zones have been deciphered with respect to Salinity only:

Sl. No.	Depth Range (m bgl)	Thickness (meter)	Remark (Quality of Aquifer Water)
01	10 - 15	05	Good
02	17 - 21	04	Good
03	26 - 32	06	Moderate
04	36 - 39	03	Moderate
05	87 - 92	05	Good
06	95 - 103	08 $\rightarrow 7.5$	Good
07	123 - 129	06 $\rightarrow 5.5$	Moderate
08	208 - 212	04	Moderate
09	214 - 218	04	Moderate
10	224 - 230	06	Moderate
11	236 - 240	04	Moderate
12	268 - 272	04	Moderate
13	274 - 278	04	Moderate

*Handwritten notes on table:*  
 - BP = 3  
 - Total 150  
 - 150 (written vertically on the right side)

Note

- 1) Fine bands of Kankar are intermixed with almost all the zones
- 2) Quality of groundwater is deteriorating to marginal - saline at depths 64.0 to 84.0 m bgl and 135.0 to 206.0 m bgl
- 3) Please ensure pre - monsoon water level before lowering the well assembly.



*Handwritten signature of Avinash Goswami*

Avinash Goswami  
Geologist



# 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 Bharsar GP Tubewell under Bharsar WSS Zone-1, TW-1, Block-Birno Development By 250 PSI Air Compressor

Size of tube well (mm): 200 X 150 RPM 1250

Static water level (m): 7.80 Discharge by-90 'V' notch (Rectangular)

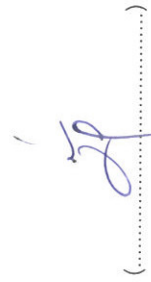
Depth of T/W (m): 131.750 Required Discharge- 350 LPM Date of testing 11-12-2023

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	11.40	10.70	0.70	7.00	124.00	6	751	6400	3500	3300	3100	3000
2	8.60	8.10	0.50	5.00	96.00	5 1/2	604	4300	2500	2300	2100	2000

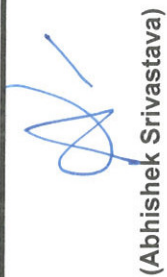
Remark- Recommended for further development by O.P. Unit

  
(.....)  
Company Repr.

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

  
(.....)  
TPIA

Medhaj Techno Concept Pvt.  
Ltd., Ghazipur

  
(Abhishek Srivastava)  
Junior Engineer

(Nitish Kumar)  
Assistant Engineer

  
(Nitish Kumar)  
Assistant Engineer

(Adarsh Verma)  
Executive Engineer

  
(Adarsh Verma)  
Executive Engineer

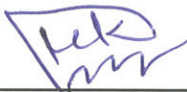



Division Office (E&M), U.P. Jal Nigam(Rural), Varanasi

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

<b>Job Code:</b>	VIRNO	<b>Compressor unit Capacity</b>		<b>As per DPR:</b>	600PSI
<b>Block:</b>	MARDAH	<b>Compressor unit Hours</b>		<b>As per Site:</b>	250 PSI
<b>Scheme</b>	Bharsar REORGANISATION WSS	<b>Compressor unit Hours</b>		<b>As per DPR:</b>	60.00
<b>GP</b>	Bharsar Z-1,T.W-1	<b>Compressor unit Hours</b>		<b>As per Site:</b>	59.47 Hrs
<b>Lowering Depth(mtr):</b>	<b>131.75</b>	<b>Cumm Gravel(cumt)</b>		<b>As per DPR:</b>	<b>79.33</b>
<b>Lowering Date :</b>	<b>15.09.2023</b>	<b>Cumm Gravel(cumt)</b>		<b>As per Site:</b>	<b>67.88</b>
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
1	1-Dec-23	08:39:00	09:45:00	1:06	
2		10:10:00	11:30:00	1:20	
3		12:00:00	13:30:00	1:30	
4		14:10:00	15:10:00	1:00	
5	2-Dec-23	07:29:00	08:55:00	1:26	
6		10:22:00	11:30:00	1:08	
7		12:14:00	13:30:00	1:16	
8		14:21:00	15:10:00	0:49	
9	3-Dec-23	16:20:00	17:13:00	0:53	
10		07:39:00	08:45:00	1:06	
11		10:20:00	11:30:00	1:10	
12		12:10:00	13:30:00	1:20	
13	4-Dec-23	14:20:00	15:10:00	0:50	
14		16:20:00	17:13:00	0:53	
15		07:19:00	08:45:00	1:26	
16		10:10:00	11:30:00	1:20	
17	5-Dec-23	12:00:00	13:20:00	1:20	
18		14:01:00	15:10:00	1:09	
19		16:10:00	17:20:00	1:10	
20		07:29:00	08:50:00	1:21	
21	6-Dec-23	10:00:00	11:30:00	1:30	
22		12:00:00	13:30:00	1:30	
23		14:00:00	15:16:00	1:16	
24		16:00:00	17:20:00	1:20	
25	7-Dec-23	08:29:00	09:54:00	1:25	
26		10:00:00	11:30:00	1:30	
27		13:00:00	14:25:00	1:25	
28		16:20:00	17:30:00	1:10	
29		18:00:00	19:30:00	1:30	
30	8-Dec-23	09:00:00	10:10:00	1:10	
31		11:00:00	12:26:00	1:26	
32		14:00:00	15:29:00	1:29	
33		16:00:00	17:10:00	1:10	
34		18:29:00	19:34:00	1:05	



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

<b>Job Code:</b>	VIRNO	<b>Compressor unit Capacity</b>	<b>As per DPR:</b>	600PSI	
<b>Block:</b>	MARDAH	<b>Compressor unit Hours</b>	<b>As per Site:</b>	250 PSI	
<b>Scheme</b>	Bharsar REORGANISATION WSS		<b>As per DPR:</b>	60.00	
<b>GP</b>	Bharsar Z-1,T.W-1		<b>As per Site:</b>	59.47 Hrs	
<b>Lowering Depth(mtr):</b>	131.75	<b>Cumm Gravel(cumt)</b>	<b>As per DPR:</b>	79.33	
<b>Lowering Date :</b>	15.09.2023	<b>Cumm Gravel(cumt)</b>	<b>As per Site:</b>	67.88	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
35	9-Dec-23	10:00:00	11:10:00	1:10	
36		12:00:00	12:50:00	0:50	
37		13:30:00	14:40:00	1:10	
38		15:00:00	16:16:00	1:16	
39		17:00:00	18:29:00	1:29	
40	10-Dec-23	08:00:00	09:14:00	1:14	
41		10:10:00	11:40:00	1:30	
42		13:30:00	14:10:00	0:40	
43		15:20:00	16:26:00	1:06	
44		17:30:00	18:29:00	0:59	
45	11-Dec-23	09:20:00	10:30:00	1:10	
46		11:05:00	12:01:00	0:56	
47		14:10:00	15:30:00	1:20	
48		16:06:00	17:10:00	1:04	
49		18:19:00	19:24:00	1:05	
<b>Total</b>			<b>59:28</b>		
<b>Total (Hrs)</b>			<b>59.47 Hrs</b>		
					
<b>Site Incharge</b>	<b>TPIA</b>	<b>Junior Engineer</b>	<b>Assistant 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			







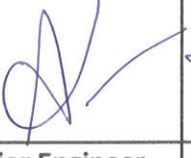

**M/S VSAIPPL-SMC JV, Ghazipur (U.P)**

			<b>Op unit Capacity</b>	<b>As per DPR:</b>	<b>1 cusec</b>
<b>Block:</b>	Birno			<b>As per Site:</b>	<b>1 cusec</b>
<b>Scheme</b>	Bharsar REORGANISATION WSS		<b>Op unit Hours</b>	<b>As per DPR:</b>	<b>100</b>
<b>GP</b>	Bharsar Z-1, T.W-1			<b>As per Site:</b>	<b>99.75</b>
			<b>Compressor Testing Date :</b>		<b>11-12-2023</b>
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	18-12-2023	08:23:00	09:54:00	1:31	
2		10:24:00	11:56:00	1:32	
3		15:46:00	17:16:00	1:30	
4		18:03:00	19:21:00	1:18	
5		19:40:00	20:25:00	0:45	
6	19-12-2023	08:43:00	09:40:00	0:57	
7		12:51:00	13:20:00	0:29	
8		15:56:00	17:17:00	1:21	
9	20-12-2023	08:55:00	09:50:00	0:55	
10		10:33:00	11:54:00	1:21	
11		12:50:00	13:20:00	0:30	
12		15:56:00	17:19:00	1:23	
13		18:06:00	19:10:00	1:04	
14	21-12-2023	08:15:00	09:40:00	1:25	
15		10:45:00	11:50:00	1:05	
16		15:57:00	17:18:00	1:21	
17		18:02:00	19:11:00	1:09	
18		19:40:00	20:34:00	0:54	
19	22-12-2023	08:55:00	10:16:00	1:21	
20		10:44:00	11:55:00	1:11	
21		12:41:00	13:51:00	1:10	
22		15:56:00	17:23:00	1:27	
23		19:38:00	21:10:00	1:32	
24	23-12-2023	08:45:00	10:10:00	1:25	
25		10:44:00	11:50:00	1:06	
26		12:52:00	14:20:00	1:28	
27		15:46:00	17:16:00	1:30	
28		19:50:00	21:10:00	1:20	
29	24-12-2023	08:35:00	10:05:00	1:30	
30		10:44:00	11:55:00	1:11	
31		15:46:00	17:16:00	1:30	
32		18:12:00	19:20:00	1:08	
33		19:40:00	21:00:00	1:20	
34	25-12-2023	08:45:00	10:10:00	1:25	
35		10:44:00	11:50:00	1:06	
36		12:50:00	14:10:00	1:20	
37		15:56:00	17:16:00	1:20	
38		19:40:00	21:00:00	1:20	
39	26-12-2023	08:55:00	10:16:00	1:21	
40		10:44:00	11:55:00	1:11	
41		12:40:00	14:00:00	1:20	
42		15:56:00	17:26:00	1:30	
43		18:12:00	19:20:00	1:08	
44		19:40:00	21:00:00	1:20	





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

			<b>Op unit Capacity</b>	<b>As per DPR:</b>	<b>1 cusec</b>
<b>Block:</b>	Birno			<b>As per Site:</b>	<b>1 cusec</b>
<b>Scheme</b>	Bharsar REORGANISATION WSS		<b>Op unit Hours</b>	<b>As per DPR:</b>	100
<b>GP</b>	Bharsar Z-1, T.W-1			<b>As per Site:</b>	<b>99.75</b>
			<b>Compressor Testing Date :</b>		<b>11-12-2023</b>
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
45	27-12-2023	08:45:00	10:00:00	1:15	
46		10:44:00	11:50:00	1:06	
47		12:50:00	14:10:00	1:20	
48		15:56:00	17:08:00	1:12	
49		19:40:00	21:00:00	1:20	
50	28-12-2023	08:45:00	10:00:00	1:15	
51		10:44:00	11:50:00	1:06	
52		12:40:00	14:00:00	1:20	
53		15:56:00	17:16:00	1:20	
54		19:40:00	21:00:00	1:20	
55	29-12-2023	08:45:00	10:10:00	1:25	
56		10:44:00	11:50:00	1:06	
57		12:50:00	14:10:00	1:20	
58		15:56:00	17:18:00	1:22	
59		18:02:00	19:10:00	1:08	
60	30-12-2023	08:45:00	10:10:00	1:25	
61		10:44:00	11:50:00	1:06	
62		12:50:00	14:10:00	1:20	
63		15:56:00	17:18:00	1:22	
64		18:02:00	19:10:00	1:08	
65	31-12-2023	19:40:00	21:09:00	1:29	
66		10:44:00	11:50:00	1:06	
67		12:50:00	14:10:00	1:20	
68		15:56:00	17:18:00	1:22	
69		18:02:00	19:10:00	1:08	
70	01-01-2024	19:40:00	21:09:00	1:29	
71		08:45:00	10:10:00	1:25	
72		15:56:00	17:18:00	1:22	
73		18:02:00	19:10:00	1:08	
74	02-01-2024	19:40:00	21:09:00	1:29	
75		08:45:00	10:10:00	1:25	
76		10:44:00	11:50:00	1:06	
77		12:48:00	14:01:00	1:13	
78		15:56:00	17:18:00	1:22	
79		19:40:00	20:45:00	1:05	
			<b>Total</b>	<b>99:45</b>	
			<b>Total (Hrs)</b>	<b>99.75</b>	
					
<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			