

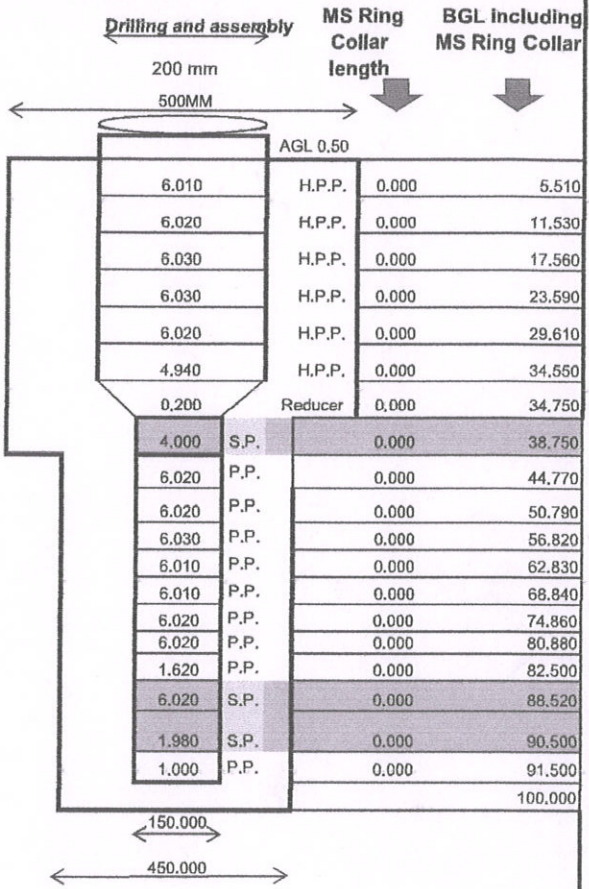
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M/S VSAIPPL-SMC JV, Ghazipur (U.P)
Actual Strata Chart of ARSADPUR(JANGIPUR) REORGANISATION WATER SUPPLY SCHEME, BLOCK-BIRNO
ZONE-2, GRAM PANCAHYAT- BAGHOL TW 3
Under Jal Jeevan Mission, District- Ghazipur(U.P.)

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	10	Clay
2	10	22	Kankad Clay
3	22	40	Very Fine Sand with Kankad
4	40	80	Kankad Clay
5	80	92	Very Fine Sand with Kankad
6	92	98	Clay
7	98	162	Kankad Clay
8	162	206	Very Fine Sand with Kankad
9	206	216	Clay
10	216	227	Fine Sand with Kankad

Logging Report				
23.07.2023				
S.N.	Depth Range	Thickn ess	Remark	
1	24	39	15	Good
2	82	91	9	Good
3	212	215	3	Moderate
4	217	220	3	Moderate

Note-
 1. All zones intermixed with thin bands of kankar.
 2. The formation of water quality is detereorating from marginal to saline in between 98-207 Mbgl.
 3. Prominent clay layer lies in between 208 - 212 Mbgl.



DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	407.000	LPM		
2	Cear Depth of bore 600mm	0	Mbgl		
3	Cear Depth of bore 500mm	65	Mbgl	58.000	Mbgl
4	Clear Depth of bore 450mm	360	Mbgl	227.000	Mbgl
5	Plane pipe 300MM	0	m	0.000	m
6	Plane pipe 200MM	60	m	35.050	m
7	Plane pipe 150MM	258	m	44.750	m
8	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	12.000	m
11	Date of lowering			07.08.2023	

 (.....) 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 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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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 Bhagol GP (Zone-2, TW-3) Tubewell under Arsadpur Jangipur WSS, Block-Jangipur Development By 250 PSI Air Compressor

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

Static water level (m): 12.00 Discharge by-90 'V' notch (Rectangular)

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			Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
	In	kg/cm2	In mtr.	(m)	Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
1	6.90	6.20	7.00	83.00	6 1/2	917	6400	3500	3300	3100	3000
3	2.10	1.60	5.00	35.00	5	476	5000	2800	2600	2400	2200

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



(.....)
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:	600 PSI	
Block:	VIRNO	Capacity	As per Site:	250 PSI	
Scheme	ARSADPUR (JANGIPUR) REORGANISATION WSS	Compressor unit	As per DPR:	60	
GP	BAGHOL ,TW 3 , ZONE 2	Hours	As per Site:	58:00	
Lowering Depth(mt):	91.50	Cumm			
Lowering Date :	28-Jul-23	Gravel(cum)	As per DPR:	79.33	
		Cumm	As per Site:	46.88	
		Gravel(cum)			
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	9-Aug-23	7:30 AM	9:00 AM	1:30	
2		10:00 AM	11:15 AM	1:15	
3		12:00 PM	1:23 PM	1:23	
4		2:00 PM	3:10 PM	1:10	
5		4:00 PM	5:00 PM	1:00	
6	10-Aug-23	8:29 AM	9:14 AM	0:45	
7		10:00 AM	10:50 AM	0:50	
8		1:00 PM	2:00 PM	1:00	
9		4:20 PM	5:10 PM	0:50	
10		6:00 PM	7:10 PM	1:10	
1	11-Aug-23	7:29 AM	8:20 AM	0:51	
2		10:00 AM	10:45 AM	0:45	
3		12:00 PM	1:03 PM	1:03	
4		2:00 PM	3:10 PM	1:10	
5		4:00 PM	5:00 PM	1:00	
6	12-Aug-23	8:20 AM	9:14 AM	0:54	
7		10:10 AM	10:42 AM	0:32	
8		1:10 PM	2:10 PM	1:00	
9		4:30 PM	5:20 PM	0:50	
10		6:00 PM	7:10 PM	1:10	
1	13-Aug-23	7:29 AM	8:20 AM	0:51	
2		10:00 AM	10:45 AM	0:45	
3		12:00 PM	1:03 PM	1:03	
4		2:00 PM	3:10 PM	1:10	
5		4:00 PM	5:00 PM	1:00	
6		8:19 AM	9:24 AM	1:05	

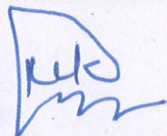
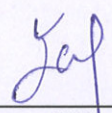
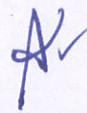

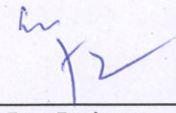
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M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Job Code:		Compressor unit	As per DPR:	600 PSI	
Block:	VIRNO	Capacity	As per Site:	250 PSI	
Scheme	ARSADPUR (JANGIPUR) REORGANISATION WSS	Compressor unit	As per DPR:	60	
GP	BAGHOL ,TW 3 , ZONE 2	Hours	As per Site:	58:00	
Lowering Depth(mt):	91.50	Cumm			
Lowering Date :	28-Jul-23	Gravel(cum)	As per DPR:	79.33	
		Cumm	As per Site:	46.88	
		Gravel(cum)			
SI No	Date	Start Time	End Time	Total Hours	Remarks
7	14-Aug-23	10:00 AM	10:40 AM	0:40	
8		1:10 PM	2:00 PM	0:50	
9		4:20 PM	5:30 PM	1:10	
10		6:05 PM	7:10 PM	1:05	
11	15-Aug-23	9:06 AM	10:20 AM	1:14	
12		11:20 AM	12:16 PM	0:56	
13		2:01 PM	3:30 PM	1:29	
14		4:00 PM	5:10 PM	1:10	
15		6:29 PM	7:04 PM	0:35	
16	16-Aug-23	10:00 AM	11:10 AM	1:10	
17		12:00 PM	12:40 PM	0:40	
18		1:30 PM	2:10 PM	0:40	
19		3:00 PM	4:06 PM	1:06	
20		5:00 PM	6:00 PM	1:00	
11	17-Aug-23	9:00 AM	10:10 AM	1:10	
12		11:00 AM	12:06 PM	1:06	
13		2:00 PM	3:00 PM	1:00	
14		4:00 PM	5:10 PM	1:10	
15		6:29 PM	7:04 PM	0:35	
16	18-Aug-23	10:00 AM	11:10 AM	1:10	
17		12:00 PM	12:40 PM	0:40	
18		1:30 PM	2:10 PM	0:40	
19		3:00 PM	4:06 PM	1:06	
20		5:00 PM	6:00 PM	1:00	
21		8:00 AM	9:14 AM	1:14	
22		10:10 AM	11:10 AM	1:00	

M/S VSAIPPL-SMC JV,Ghazipur (U.P)					
Job Code:		Compressor unit	As per DPR:	600 PSI	
Block:	VIRNO	Capacity	As per Site:	250 PSI	
Scheme	ARSADPUR (JANGIPUR) REORGANISATION WSS	Compressor unit	As per DPR:	60	
GP	BAGHOL ,TW 3 , ZONE 2	Hours	As per Site:	58:00	
Lowering Depth(mt):	91.50	Cumm			
Lowering Date :	28-Jul-23	Gravel(cum)	As per DPR:	79.33	
		Cumm	As per Site:	46.88	
		Gravel(cum)			
SI No	Date	Start Time	End Time	Total Hours	Remarks
23	19-Aug-23	1:30 PM	2:10 PM	0:40	
24		3:20 PM	4:26 PM	1:06	
25		5:30 PM	6:18 PM	0:48	
26	20-Aug-23	9:20 AM	10:00 AM	0:40	
27		11:05 AM	12:00 PM	0:55	
28		2:10 PM	3:04 PM	0:54	
29		4:26 PM	5:00 PM	0:34	
30		6:19 PM	7:04 PM	0:45	
			Total	58:00	
					
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		

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 Bhagol GP (Zone-2, TW-3) 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): 6.40 Required Discharge(LPM)- 407 LPM Date: 02-01-2024

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	34.00	931	13.50	7.10	600	250	200	150	100
2	19.00	693	11.60	5.20	350	200	150	100	50
3	6.00	409	10.30	3.90	100	50	Tr	Tr	Cl

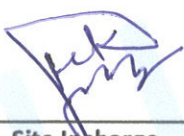


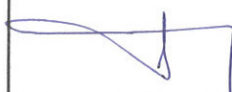
Remark- Recommended discharge 407 LPM L.P.M. at 3.9 m depression after running 20 minute bypass.

(.....) 0
Company Repre. (.....) (Abhishek Srivastava) Junior Engineer
M/S VSAIPPL-SMC JV, Ghazipur (U.P.) Medhaj Techno Concept Pvt. Ltd., Ghazipur
TPIA
Division Office (E&M) , U.P. Jal Nigam(Rural), Varanasi
(.....) (Nitish Kumar) Assistant Engineer
(.....) (Adarsh Verma) Executive Engineer

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

Block:	VIRNO		Op unit Capacity	As per DPR:	1 cusec
				As per Site:	1 cusec
Scheme	ARSADPUR(JANGIPUR) REORGANISATION WSS		Op unit Hours	As per DPR:	100
				As per Site:	98.31 Hrs
GP	Bhagol Z-2,T.W-3		Compressor Testing Date :		20-08-2023
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	22-12-2023	8:23:00	9:54:00	1:31	0:30
2		10:24:00	11:54:00	1:30	0:26
3		12:20:00	13:38:00	1:18	1:08
4		14:46:00	16:16:00	1:30	0:46
5		17:02:00	18:45:00	1:43	0:51
6		19:36:00	21:30:00	1:54	0:40
7		22:10:00	23:26:00	1:16	0:44
8	23-12-2023	0:10:00	1:45:00	1:35	6:15
9		8:00:00	9:54:00	1:54	0:17
10		10:11:00	11:34:00	1:23	0:51
11		12:25:00	13:38:00	1:13	1:07
12		14:45:00	16:12:00	1:27	0:59
13		17:11:00	18:48:00	1:37	0:52
14		19:40:00	21:30:00	1:50	0:30
15	22:00:00	23:45:00	1:45	0:25	
16	24-12-2023	0:10:00	1:45:00	1:35	6:40
17		8:25:00	9:54:00	1:29	0:30
18		10:24:00	11:54:00	1:30	0:26
19		12:20:00	13:55:00	1:35	1:51
20		15:46:00	17:16:00	1:30	0:46
21		18:02:00	19:21:00	1:19	0:19
22		19:40:00	21:30:00	1:50	10:55
23	25-12-2023	8:25:00	9:54:00	1:29	0:30
24		10:24:00	11:54:00	1:30	0:26
25		12:20:00	13:40:00	1:20	1:06
26		14:46:00	16:16:00	1:30	0:46
27		17:02:00	18:45:00	1:43	0:55
28		19:40:00	21:30:00	1:50	0:40
29		22:10:00	23:30:00	1:20	0:40
30	26-12-2023	0:10:00	1:45:00	1:35	7:00
31		8:45:00	9:40:00	0:55	1:04
32		10:44:00	11:50:00	1:06	1:00
33		12:50:00	13:20:00	0:30	2:36
34		15:56:00	17:18:00	1:22	0:44
35		18:02:00	19:10:00	1:08	0:30
36		19:40:00	20:30:00	0:50	12:25
37	27-12-2023	8:55:00	9:50:00	0:55	0:44
38		10:34:00	11:53:00	1:19	0:57
39		12:50:00	13:20:00	0:30	2:36
40		15:56:00	17:18:00	1:22	0:44
41		18:02:00	19:10:00	1:08	0:30
42		19:40:00	20:30:00	0:50	11:45
43		8:15:00	9:40:00	1:25	1:04
44	28-12-2023	10:44:00	11:50:00	1:06	1:00
45		12:50:00	13:20:00	0:30	2:36
46		15:56:00	17:18:00	1:22	0:44
47		18:02:00	19:10:00	1:08	0:30
48		19:40:00	20:34:00	0:54	12:21

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

Block:	VIRNO		Op unit Capacity	As per DPR:	1 cusec
				As per Site:	1 cusec
Scheme	ARSADPUR(JANGIPUR) REORGANISATION WSS		Op unit Hours	As per DPR:	100
GP	Bhagol Z-2,T.W-3			As per Site:	98.31 Hrs
			Compressor Testing Date :	20-08-2023	
SI No	Date	Start Time	End Time	Total Hours	Remarks
49	29-12-2023	8:55:00	10:16:00	1:21	0:28
50		10:44:00	11:55:00	1:11	0:45
51		12:40:00	13:50:00	1:10	2:06
52		15:56:00	17:26:00	1:30	0:46
53		18:12:00	19:20:00	1:08	0:20
54		19:40:00	21:10:00	1:30	11:35
55	30-12-2023	8:45:00	10:10:00	1:25	0:34
56		10:44:00	11:50:00	1:06	1:00
57		12:50:00	14:20:00	1:30	1:26
58		15:46:00	17:16:00	1:30	0:46
59		18:02:00	19:10:00	1:08	0:40
60		19:50:00	21:10:00	1:20	11:25
61	31-12-2023	8:35:00	10:05:00	1:30	0:39
62		10:44:00	11:55:00	1:11	0:47
63		12:42:00	14:12:00	1:30	1:34
64		15:46:00	17:16:00	1:30	0:56
65		18:12:00	19:20:00	1:08	0:20
66		19:40:00	21:00:00	1:20	11:35
67	01-01-2024	8:35:00	10:05:00	1:30	0:39
68		10:44:00	11:55:00	1:11	0:47
69		12:42:00	14:12:00	1:30	1:34
70		15:46:00	17:16:00	1:30	0:56
71		18:12:00	19:20:00	1:08	13:15
72	02-01-2024	8:35:00	10:05:00	1:30	0:39
73		10:44:00	11:55:00	1:11	12:05
			Total	98:19	
			Total (Hrs)	98.31 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		



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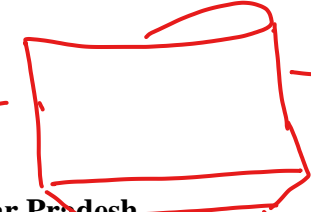
Ref. No. : AGS/EL/2023/GCT-50
Date : 24/07/2023

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site Name : Baghol Tw 3 zone 2
 Location : 25.646607, 83.582833
 Block : Virno
 District : Ghazipur
 State : Uttar Pradesh
 Drilling Depth : 240 Mbgl (Reported by Driller)
 Logging Depth : 227 Mbgl
 Rm/Rw : 14/13
 Date of Logging : 23-July-2023
 Logged By : Mr. Sadik Sheikh (Wellsite Geologist)
 Logger Make : GIT
 Tubewell Drilled By : M/S VSAIPPL_SMC(JV), Ghazipur, Uttar Pradesh
 Representative : M/S Shree Samarth Parth Infrabuild

$Q = 407$
 200×150
 $60 + 258 + 12$

200×150



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	24-39	15 - 4	Good 34.75
2	82-91	9 - 8	Good 28.75
3	212-215	3	Moderate 82.50
4	217-220	3	Moderate 90.50

- Note: 1. All zones intermixed with thin bands of kankar.
 2 - The formation of water quality is detereorating from marginal to salin in between 98-207 Mbgl.
 3- Prominent clay layer lies in between 208-212 Mbgl.

AllGeo Solutions
 Sanjeet Sharma
 (Hydrogeologist)

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