

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

(68)

Actual Strata Chart of Dharmagatpur REORGANISATION WATER SUPPLY SCHEME, BLOCK-JAKHANIYA, ZONE  
1, GRAM PANCAHYAT-Dharmagatpur TW 1  
Under Jal Jeevan Mission, District- Ghazipur (U.P.)

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	4	Clay
2	4	16	Kankad Clay
3	16	22	Kankad
4	22	30	Kankad Clay
5	30	36	Very Fine Sand with Kankad
6	36	52	Kankad Clay
7	52	64	Very Fine Sand with Kankad
8	64	70	Clay
9	70	88	Fine Sand with Kankad
10	88	120	Kankad Clay

Drilling and assembly 300 mm 600MM		MS Ring Collar length	BGL including MS Ring Collar	
AGL 0.50		0		
6.080	P.P.		0.000	5.580
6.080	P.P.		0.000	11.660
6.080	P.P.		0.000	17.740
6.080	P.P.		0.000	23.820
6.080	P.P.		0.000	29.900
1.350	P.P.		0.000	31.250
3.500	S.P.		0.000	34.750
6.060	P.P.		0.000	40.810
6.050	P.P.		0.000	46.860
6.050	P.P.		0.000	52.910
0.340	P.P.		0.000	53.250
6.000	S.P.		0.000	59.250
3.500	S.P.		0.000	62.750
1.000	P.P.		0.000	63.750
				69.000

**Logging Report**

17.08.2023

S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	17	21	4	Good
2	31	35	4	Good
3	53	63	10	Good

Note-

1. Fine bands of kankar are intermixed with almost all the zones.
2. Quality of groundwater is deteriorating to marginal beneath 70.0 m bgl till depth logged.

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	545.000	LPM		
2	Clear Depth of bore 600mm	120	Mbgl	69.000	Mbgl
3	Clear Depth of bore 500mm	0	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	0	Mbgl	120.000	Mbgl
5	Plane pipe 300MM	98	m	51.250	m
6	Plane pipe 200MM	0	m	0.000	m
7	Plane pipe 150MM	0	m	0.000	m
8	Slotted pipe 300MM	12	m	13.000	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	0	m	0.000	m
11	Date of lowering			27.08.2023	

 (.....) <b>Company Repre.</b> M/S VSAIPPL-SMC	 (.....) <b>TPIA</b> Medhaj Techno Concept Pvt. Ltd., Ghazipur	 (A. Srivastava) <b>Junior Engineer</b> Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi	 (Nitish Kumar) <b>Assistant Engineer</b> Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi	 (Adarsh Verma) <b>Exe. Engineer</b> Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi
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# 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-140

Dated: 18-08-2023

## GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Dharmagatpur  
Block: Jakhania  
District: Ghazipur  
State: Uttar Pradesh  
Date of Logging: 17-08-2023  
Drilling Depth: 120.0m bgl  
Logging Depth: 122.0 m bgl  
Rm - 13.0 Ωm Rw - 15.0 Ωm

2-1

545 LPM  
98+12  
300x300

300x300

31.25

32.5 34.75

53.25

62.75

63.75

69.00

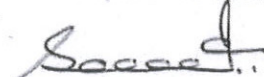
Borehole Drilled by: M/s Vikraan Engineering, Ghazipur, Uttar Pradesh.

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.	17 - 21	04	Good
2.	31 - 35	04 - 3.5	Good
3.	53 - 63	10 - 9.5	Good

- Note: 1. Fine bands of kankar are intermixed with almost all the zones.  
2. Quality of Ground water is deteriorating marginal to saline below 70.0 m bgl to till depth logged.

For Geo Instruments & Technic's

  
(S. Shukla)

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

Regd. Office-#10, APIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072

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

Test Report of Dharmagatpur GP (Zone-1, T.W-1) Tubewell under Dharmagatpur WSS, Block-Jakhaniya Development By 250 PSI Air Compressor

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

Static water level (m): 11.10 Discharge by-90 'V' notch (Rectangular)

Depth of T/W (m): 63.750 Required Discharge- 545 LPM Date of testing 20-10-2023

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	4.10	3.40	0.70	7.00	54.00	7	1104	6100	3400	3200	3000	2900
3	1.90	1.30	0.60	6.00	32.00	6 1/2	917	4900	2800	2600	2400	2200

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

(Adarsh Verma)  
Executive Engineer




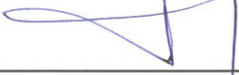
Division Office (E&M), U.P. Jal Nigam(Rural), Varanasi



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

<b>Job Code:</b>	JAKHANIYA	<b>Compressor unit Capacity</b>	<b>As per DPR:</b>	400 PSI	
<b>Bflock:</b>	MARDAH	<b>Compressor unit Hours</b>	<b>As per Site:</b>	250 PSI	
<b>Scheme</b>	Dharmagatpur REORGANISATION WSS		<b>As per DPR:</b>	60	
<b>GP</b>	Dharmagatpur Z-1,T.W-1		<b>As per Site:</b>	58.61 Hrs	
<b>Lowering Depth(mtr):</b>	63.750				
<b>Lowering Date :</b>	27-Aug-23	<b>Cumm Gravel(cumt)</b>	<b>As per DPR:</b>	39.00	
		<b>Cumm Gravel(cumt)</b>	<b>As per Site:</b>	38.45	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
1	12-Oct-23	07:18:00	08:50:00	1:32	
2		10:15:00	11:25:00	1:10	
3		12:08:00	13:21:00	1:13	
4		14:07:00	15:30:00	1:23	
5		16:11:00	17:20:00	1:09	
6	13-Oct-23	08:29:00	09:50:00	1:21	
7		10:00:00	11:11:00	1:11	
8		13:00:00	14:32:00	1:32	
9		16:20:00	17:52:00	1:32	
10		18:00:00	00:03:00	6:03	
11	14-Oct-23	09:00:00	10:22:00	1:22	
12		11:00:00	12:22:00	1:22	
13		16:00:00	17:20:00	1:20	
14		18:23:00	19:34:00	1:11	
15	15-Oct-23	10:09:00	11:10:00	1:01	
16		12:03:00	12:50:00	0:47	
17		13:33:00	14:30:00	0:57	
18		15:05:00	16:26:00	1:21	
19		17:00:00	18:30:00	1:30	
20	16-Oct-23	08:00:00	09:14:00	1:14	
21		10:10:00	11:20:00	1:10	
22		13:30:00	14:10:00	0:40	
23		15:22:00	16:26:00	1:04	
24		17:32:00	19:00:00	1:28	
25	17-Oct-23	08:00:00	09:14:00	1:14	
26		10:10:00	11:33:00	1:23	
27		13:30:00	14:36:00	1:06	
28		15:20:00	16:48:00	1:28	
29		17:30:00	18:33:00	1:03	
30	18-Oct-23	09:03:00	10:10:00	1:07	
31		11:01:00	12:06:00	1:05	
32		14:05:00	15:00:00	0:55	
33		16:03:00	17:10:00	1:07	
34		18:29:00	19:34:00	1:05	

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

<b>Job Code:</b>	JAKHANIYA	<b>Compressor unit Capacity</b>	<b>As per DPR:</b>	400 PSI	
<b>Block:</b>	MARDAH		<b>As per Site:</b>	250 PSI	
<b>Scheme</b>	Dharmagatpur REORGANISATION WSS	<b>Compressor unit Hours</b>	<b>As per DPR:</b>	60	
<b>GP</b>	Dharmagatpur Z-1,T.W-1		<b>As per Site:</b>	58.61 Hrs	
<b>Lowering Depth(mtr):</b>	63.750	<b>Cumm Gravel(cumt)</b>	<b>As per DPR:</b>	39.00	
<b>Lowering Date :</b>	27-Aug-23		<b>As per Site:</b>	38.45	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
35	19-Oct-23	09:00:00	10:10:00	1:10	
36		11:00:00	12:33:00	1:33	
37		14:00:00	15:30:00	1:30	
38		16:00:00	17:30:00	1:30	
39		18:29:00	19:54:00	1:25	
40	20-Oct-23	10:12:00	11:34:00	1:22	
41		13:34:00	14:50:00	1:16	
42		15:20:00	16:46:00	1:26	
43		17:33:00	18:52:00	1:19	
<b>Total</b>			<b>58:37</b>		
<b>Total (Hrs)</b>			<b>58.61 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.)

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 Dharmagatpur GP (Zone-1, TW-1) Tubewell under Dharmagatpur

Reorganisation WSS, Block-Jakhaniya by 1 Cusec O.P. Unit

Size of Ventury 4" X 3"

Column Pipe Lowered(m): 30.00

Static water level(m): 11.20

Required Discharge(LPM)- 545 LPM

Date: 05-01-2024

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	50.00	1120	18.30	7.10	800	450	300	200	100
2	33.00	916	17.00	5.80	400	200	150	100	50
3	12.00	553	15.60	4.40	100	50	Tr	Tr	Cl

Remark- Recommended discharge 545 LPM L.P.M. at 4.4 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

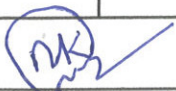

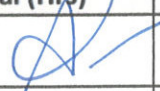
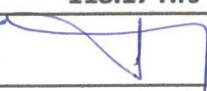
Division Office (E&M), U.P. Jal Nigam(Rural), Varanasi

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

<b>Block:</b>	JAKHANIYA		<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>	DHARMAGATPUR REORGANISATION WSS		<b>Op unit Hours</b>	<b>As per DPR:</b>	120	
<b>GP</b>	DHARMAGATPUR Z-1,T.W-1			<b>As per Site:</b>	118.17 Hrs	
<b>REQUIRED DISCHARGE</b>	545		<b>Compressor Testing Date :</b>		<b>20-10-2023</b>	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>	
1	24-12-2023	07:21:00	08:14:00	0:53		
2		08:21:00	09:54:00	1:33		
3		10:24:00	11:52:00	1:28		
4		12:20:00	13:58:00	1:38		
5		14:43:00	16:12:00	1:29		
6		17:04:00	18:47:00	1:43		
7		19:38:00	21:28:00	1:50		
8		22:12:00	23:50:00	1:38		
9	25-12-2023	07:00:00	08:04:00	1:04		
10		08:21:00	09:54:00	1:33		
11		10:24:00	11:52:00	1:28		
12		12:20:00	13:38:00	1:18		
13		14:43:00	16:12:00	1:29		
14		17:04:00	18:47:00	1:43		
15		19:38:00	21:28:00	1:50		
16		22:12:00	23:30:00	1:18		
17	26-12-2023	00:10:00	01:47:00	1:37		
18		08:05:00	09:54:00	1:49		
19		10:15:00	11:36:00	1:21		
20		12:28:00	13:43:00	1:15		
21		14:47:00	16:14:00	1:27		
22		17:11:00	18:48:00	1:37		
23		19:40:00	21:30:00	1:50		
24		22:00:00	23:45:00	1:45		
25	27-12-2023	00:14:00	01:45:00	1:31		
26		08:25:00	09:57:00	1:32		
27		10:24:00	11:54:00	1:30		
28		12:20:00	13:55:00	1:35		
29		15:47:00	17:18:00	1:31		
30		18:05:00	19:23:00	1:18		
31		19:40:00	21:30:00	1:50		
32		08:25:00	09:54:00	1:29		
33	28-12-2023	10:23:00	11:54:00	1:31		
34		12:20:00	13:40:00	1:20		
35		14:46:00	16:10:00	1:24		
36		17:02:00	18:45:00	1:43		
37		19:40:00	21:30:00	1:50		
38		22:10:00	23:30:00	1:20		
39		29-12-2023	00:10:00	01:45:00	1:35	
40			08:45:00	09:40:00	0:55	
41	10:41:00		11:53:00	1:12		
42	12:50:00		13:21:00	0:31		
43	15:58:00		17:18:00	1:20		
44	18:02:00		19:11:00	1:09		
45	19:40:00		20:30:00	0:50		
46	08:57:00		09:52:00	0:55		
47	10:34:00	11:53:00	1:19			



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

<b>Block:</b>	JAKHANIYA	<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>	DHARMAGATPUR REORGANISATION WSS	<b>Op unit Hours</b>	<b>As per DPR:</b>	<b>120</b>	
<b>GP</b>	DHARMAGATPUR Z-1,T.W-1		<b>As per Site:</b>	<b>118.17 Hrs</b>	
<b>REQUIRED DISCHARGE</b>	545	<b>Compressor Testing Date :</b>		<b>20-10-2023</b>	
<b>SI No</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Total Hours</b>	<b>Remarks</b>
48	30-12-2023	12:53:00	13:25:00	0:32	
49		15:56:00	17:18:00	1:22	
50		18:02:00	19:10:00	1:08	
51		19:45:00	20:40:00	0:55	
52	31-12-2023	08:15:00	09:40:00	1:25	
53		10:44:00	11:50:00	1:06	
54		12:50:00	14:20:00	1:30	
55		15:56:00	17:18:00	1:22	
56		18:02:00	19:10:00	1:08	
57	01-01-2024	19:40:00	21:34:00	1:54	
58		08:55:00	10:16:00	1:21	
59		10:44:00	11:55:00	1:11	
60		12:40:00	14:20:00	1:40	
61		15:56:00	17:26:00	1:30	
62		18:12:00	19:20:00	1:08	
63	02-01-2024	19:40:00	21:10:00	1:30	
64		08:45:00	10:10:00	1:25	
65		10:45:00	11:50:00	1:05	
66		12:50:00	14:20:00	1:30	
67		15:46:00	17:16:00	1:30	
68	03-01-2024	18:02:00	19:10:00	1:08	
69		19:50:00	21:18:00	1:28	
70		08:35:00	10:05:00	1:30	
71		10:46:00	11:55:00	1:09	
72		12:46:00	14:12:00	1:26	
73		15:46:00	17:16:00	1:30	
74		18:12:00	19:20:00	1:08	
75	04-01-2024	19:40:00	21:04:00	1:24	
76		08:35:00	10:05:00	1:30	
77		10:44:00	11:55:00	1:11	
78		12:42:00	14:14:00	1:32	
79	05-01-2024	15:46:00	17:16:00	1:30	
80		18:12:00	19:10:00	0:58	
81		08:35:00	10:00:00	1:25	
82		12:42:00	14:14:00	1:32	
83		15:44:00	17:16:00	1:32	
84	20:45:00	18:12:00	19:20:00	1:08	
82		20:45:00	21:56:00	1:11	
			<b>Total</b>	<b>118:10</b>	
			<b>Total (Hrs)</b>	<b>118.17 Hrs</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			