



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
 Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. Date of Logging: 21/06/2023
 2. Village: Dhahaur Kala
 3. Location: Govt Primary School
 4. Block: Ikauna
 5. District: Shravasti
 6. Latitude & Longitude: 27.6015 & 81.9387
 7. Drilling depth: 185m bgl
 8. Logging depth: 165 m bgl
 9. Logging Company: UP Ground Water Department
 10. Bore hole drilled by: Vishwanath Project Ltd
 11. Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N, FL, Lateral)
 12. (i) Resistivity of Mud (Rm): 12.00 ohm-m, (ii) Resistivity of fresh water (Rf): 12.30 ohm-m

13. On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-

(a) Aquifer: The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones

(b) Clay: The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones

Based on the downhole Geophysical Parameters following information (Granular zones) deciphered:-

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Aquifer Recommendation	Remark (Quality of aquifer water)
1	0-9	9	Top soil		Good
2	9-20	11	Medium to fine sand	Recommended	Good
3	20-29	9	Sandy Clay		Good
4	29-41	12	Medium to fine sand	Recommended	Good
5	41-47	6	Clay		Good
6	47-56	9	Medium to fine sand	Recommended	Good
7	56-62	6	Sandy clay		Good
8	62-99	37	Medium to fine sand	Recommended	Good
9	99-103	4	Fine sand - finer Sediments		Good
10	103-108	5	Clayey sand		Good
11	108-141	33	Medium to fine sand	Recommended	Good
12	141-155	14	Clay		Good
13	155-164	9	Medium to fine sand	Recommended	Good

14. Note:

(i) All Zones are intermixed with kankar.

(ii) Zone 2, 3, 4, 8, 11 & 13 is intermixed with thin layers of kankar.

15. Quality of the formation water is good up to Logging depth

16. Log Attached.

Verified as per logs provided

*NOTE - S/N 08
62-99 and
S/N 11-108-118
and 135-141*

Rajeev Kumar

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(Geophysicist)

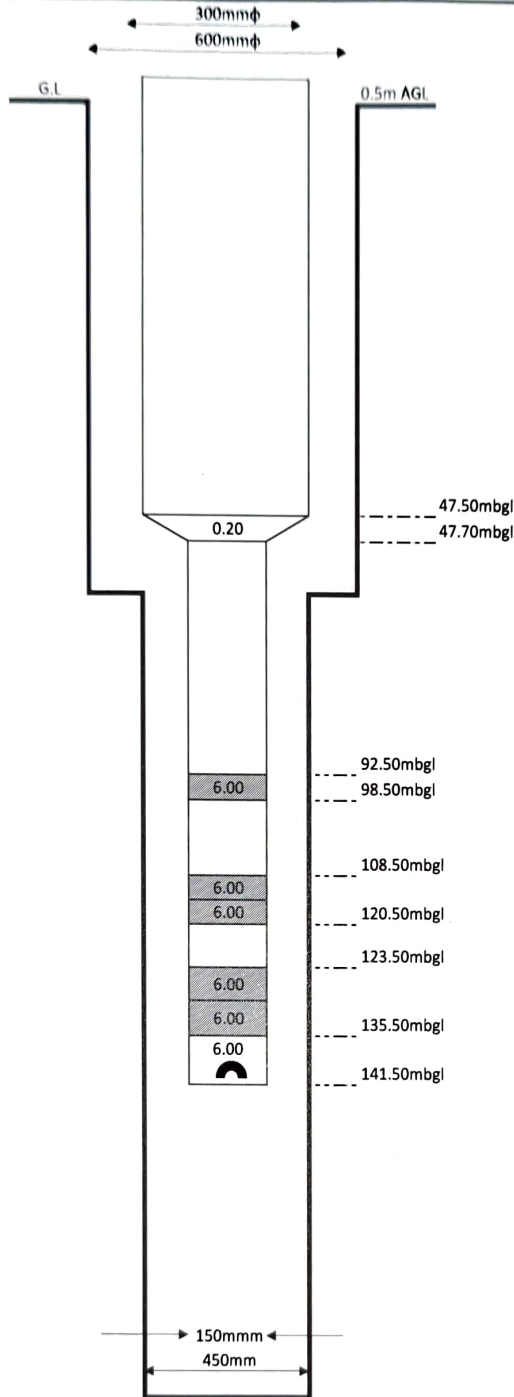
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22/06/23*



GA INFRA- VISHWANATH PROJECTS LIMITED

PROPOSED STRATA CHART & TUBEWELL ASSEMBLY OF DHAHAUR KALA KW/S SCHEME, BLOCK IKAUNA , DISTRICT- SHRAVASTI.



Bore Size	600 x 450mm
Assembly Size	300 x 150mm
Drilling Depth	165 Mbgl
Logging Depth	165 Mbgl
Date of Logging	22.06.2023
Required Discharge	800 lpm/44m

LOGGING REPORT-

Sl. No.	Depth Range(mbgl)	Thickness(m)	Remark
1	0-9	9	
2	9-20	11	
3	29-41	12	
4	47-56	9	
5	62-99	37	
6	108-141	33	
7	155-164	9	

Note:-

- 1 Almost all zones are intermixed with fine bands of kankar.

As per Estimate

Sl. No.	Descriptions	Length(m)	Remarks
1	300mm ϕ Housing Pipe	48.00	
2	150mm ϕ Plain Pipe	72.00	
3	150mm Slotted Pipe	30.00	



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(JE, UPJN(RURAL) E/M
GONDA)

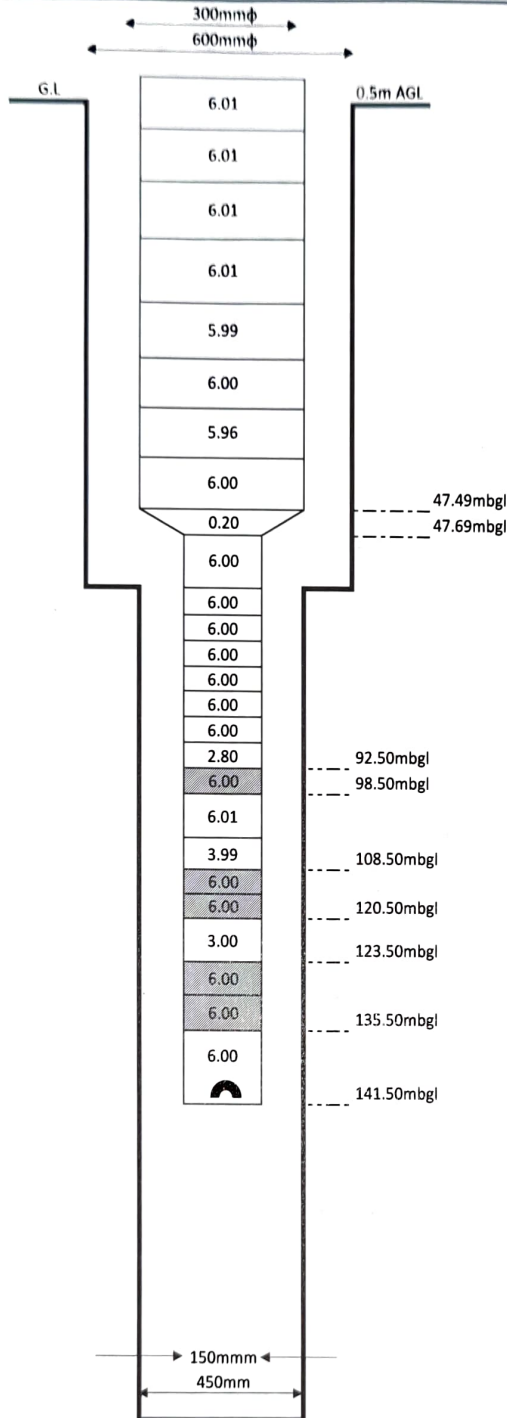
(AE, UPJN(RURAL) E/M
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(EE, UPJN(RURAL) E/M
GONDA)



GA INFRA- VISHWANATH PROJECTS LIMITED

ACTUAL STRATA CHART & TUBEWELL ASSEMBLY OF DHAHAUR KALA KW/S SCHEME, BLOCK EKAUNA , DISTRICT- SHRAVASTI.



Bore Size	600 x 450mm
Assembly Size	300 x 150mm
Drilling Depth	165 Mbgl
Logging Depth	165 Mbgl
Date of Logging	22.06.2023
Required Discharge	800 lpm/44m
Date of Lowring	25.06.2023

LOGGING REPORT-

Sl. No.	Depth Range(mbgl)	Thickness(m)	Remark
1	0-9	9	ALL GOOD
2	9-20	11	
3	20-29	9	
4	29-41	12	
5	41-47	6	
6	47-56	9	
7	56-62	6	
8	62-99	37	
9	99-103	4	
10	103-108	5	
11	108-141	33	
12	141-155	14	
13	155-164	9	

Note:-

- 1 Almost all zones are intermixed with fine bands of kankar.

Sl. No.	Descriptions	Length(m)	Remarks
1	300mmφ Housing Pipe	47.99	
2	150mmφ Plain Pipe	63.8	
3	150mm Slotted Pipe	30.00	
4	300mmX150mm Reducer	0.20	
Total Assembly		141.99	
Less AGL		0.50	
TOTAL BGL		141.49	



(JE, UPJN(RURAL) E/M
GONDA)

(AE, UPJN(RURAL) E/M
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