



**GROUND WATER DEPARTMENT**  
**GOVERNMENT OF UTTAR PRADESH**  
Lucknow-226002



**GEOPHYSICAL BOREHOLE-LOGGING REPORT**

1. Date of Logging: 25/07/2023
2. Village: Ghoghawa Kalan
3. Location: Canal
4. Block: Sirsiya
5. District: Shravasti
6. Latitude & Longitude: 27.7885 & 82.1127.
7. Drilling depth: 165m bgl
8. Logging depth: 165 m bgl
9. Logging Company: UP Ground Water Department
10. Bore hole drilled by: DSA Construction.
11. Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N).
12. (i) Resistivity of Mud (Rm): 18.00 ohm-m. (ii) Resistivity of fresh water (Rf): 12.90 ohm-m.

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

(a) **Acquifer:** 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	Acquifer Recommendation	Remark (Quality of aquifer water)
1.	10-22	12	Medium to fine sand	Recommended	Good
2.	32-38	6	Medium to fine sand	Recommended	Good
3.	58-69	11	Medium to fine sand	Recommended	Good
4.	87-91	4	Medium to fine sand	Recommended	Good
5.	103-109	6	Medium to fine sand	Recommended	Good
6.	122-125	3	Medium to fine sand	Recommended	Good
7.	148-150	2	Medium to fine sand	Recommended	Good

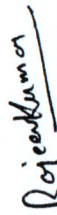
**14. Note:-**

(i) All Zones are intermixed with kankar.

(ii) Zone 1,3,5 & 4 is intermixed with thin layers of kankar.

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

16. Log Attached.

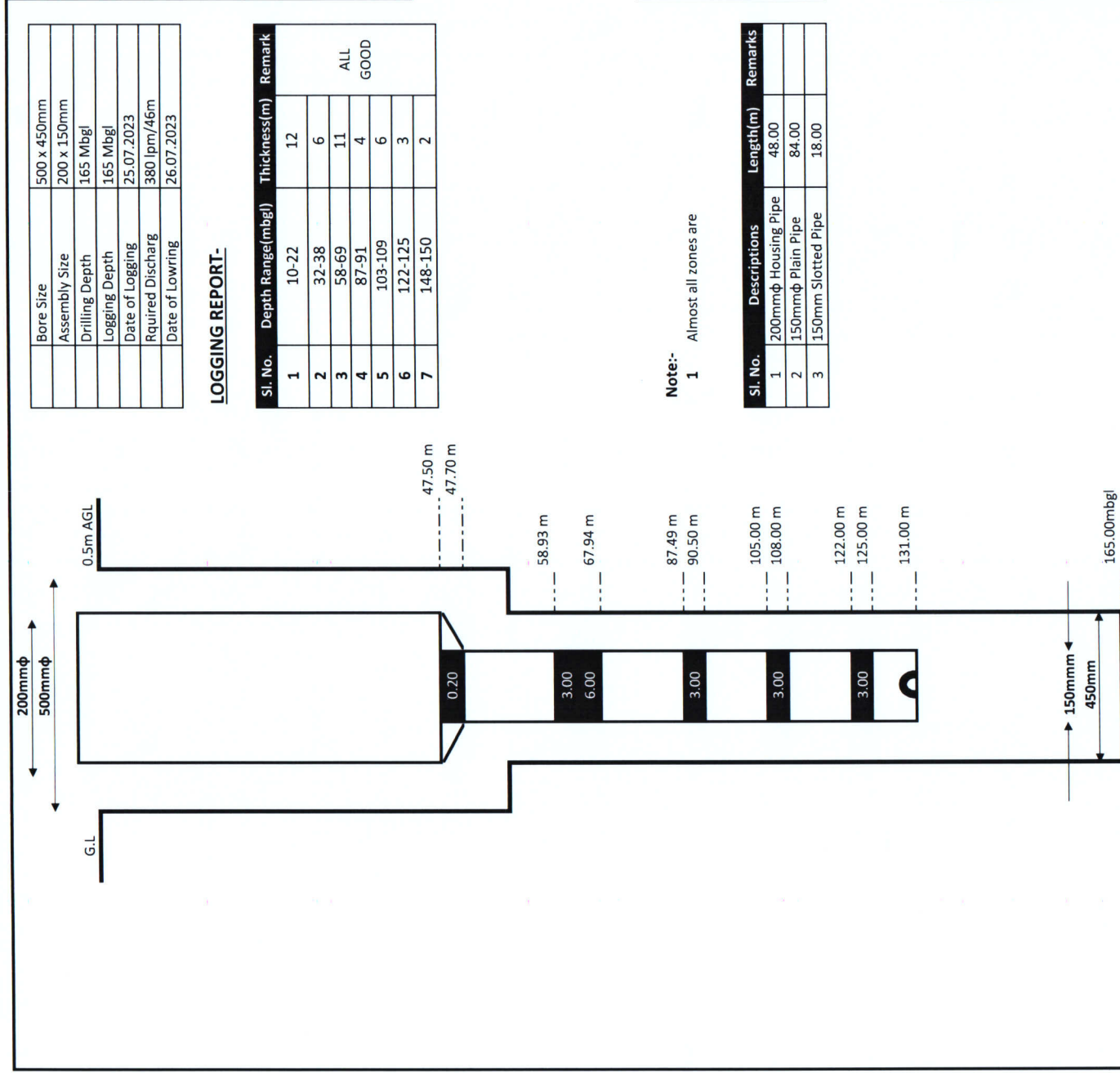
  
**Rajeev Kumar**  
Geophysicist  
National Hydrology Project  
Ground Water Department Lko. U.P.





# GA INFRA- VISHWANATH PROJECTS LIMITED

PROPOSED STRATA CHART & TUBEWELL ASSEMBLY OF Ghoghva Kalan KW/S SCHEME, BLOCK Sirsiya , DISTRICT- SHRAVASTI



Bore Size	500 x 450mm
Assembly Size	200 x 150mm
Drilling Depth	165 Mbgl
Logging Depth	165 Mbgl
Date of Logging	25.07.2023
Required Discharg	380 lpm/46m
Date of Lowring	26.07.2023

### LOGGING REPORT-

Sl. No.	Depth Range(mbgl)	Thickness(m)	Remark
1	10-22	12	
2	32-38	6	
3	58-69	11	ALL
4	87-91	4	GOOD
5	103-109	6	
6	122-125	3	
7	148-150	2	

### Note:-

- 1 Almost all zones are

Sl. No.	Descriptions	Length(m)	Remarks
1	200mmφ Housing Pipe	48.00	
2	150mmφ Plain Pipe	84.00	
3	150mm Slotted Pipe	18.00	



A INFRA- VISHWANATH P. -JT

(JE, UP(IN)RURAL) E/M  
JUNIOR ENGINEER  
GONDA  
DIVISION OFFICE (E/M)  
U.P. JAL NIGAM RURAL GONDA

(AE, UP(IN)RURAL) E/M  
GONDA

(EE, UP(IN)RURAL) E/M  
GONDA  
EXECUTIVE ENGINEER  
DIVISION OFFICE (E/M)  
U.P. JAL NIGAM RURAL GONDA

U.P. JAL NIGAM RURAL GONDA



# GA INFRA- VISHWANATH PROJECTS LIMITED

ACTUAL STRATA CHART & TUBEWELL ASSEMBLY OF Ghoghva Kalan kW/S SCHEME, BLOCK Sirsiya , DISTRICT- SHRAVASTI

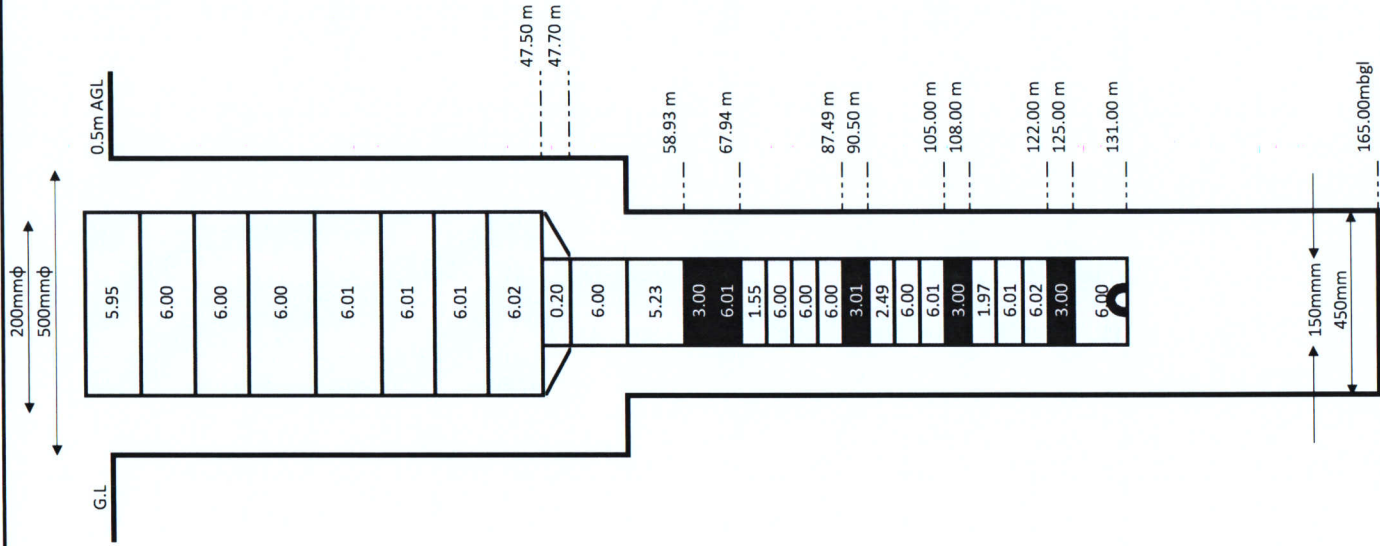
Bore Size	500 x 450mm
Assembly Size	200 x 150mm
Drilling Depth	165 Mbgl
Logging Depth	165 Mbgl
Date of Logging	25.07.2023
Required Discharge	380 lpm/46m
Date of Lowering	26.07.2023

### LOGGING REPORT-

Sl. No.	Depth Range(mbgl)	Thickness(m)	Remark
1	10-22	12	
2	32-38	6	
3	58-69	11	ALL
4	87-91	4	GOOD
5	103-109	6	
6	122-125	3	
7	148-150	2	

### Note:-

- 1 Almost all zones are



Sl. No.	Descriptions	Length(m)	Remarks
1	200mmφ Housing Pipe	48.00	
2	150mmφ Plain Pipe	65.28	
3	150mm Slotted Pipe	18.02	
4	300mmX150mm	0.20	
<b>Total Assembly</b>		<b>131.50</b>	
Less AGL		0.50	
<b>TOTAL BGL</b>		<b>131.00</b>	



A INFRA- VISHWANATH P. LT

(JE, UP(IN)RURAL) E/M  
GONDA

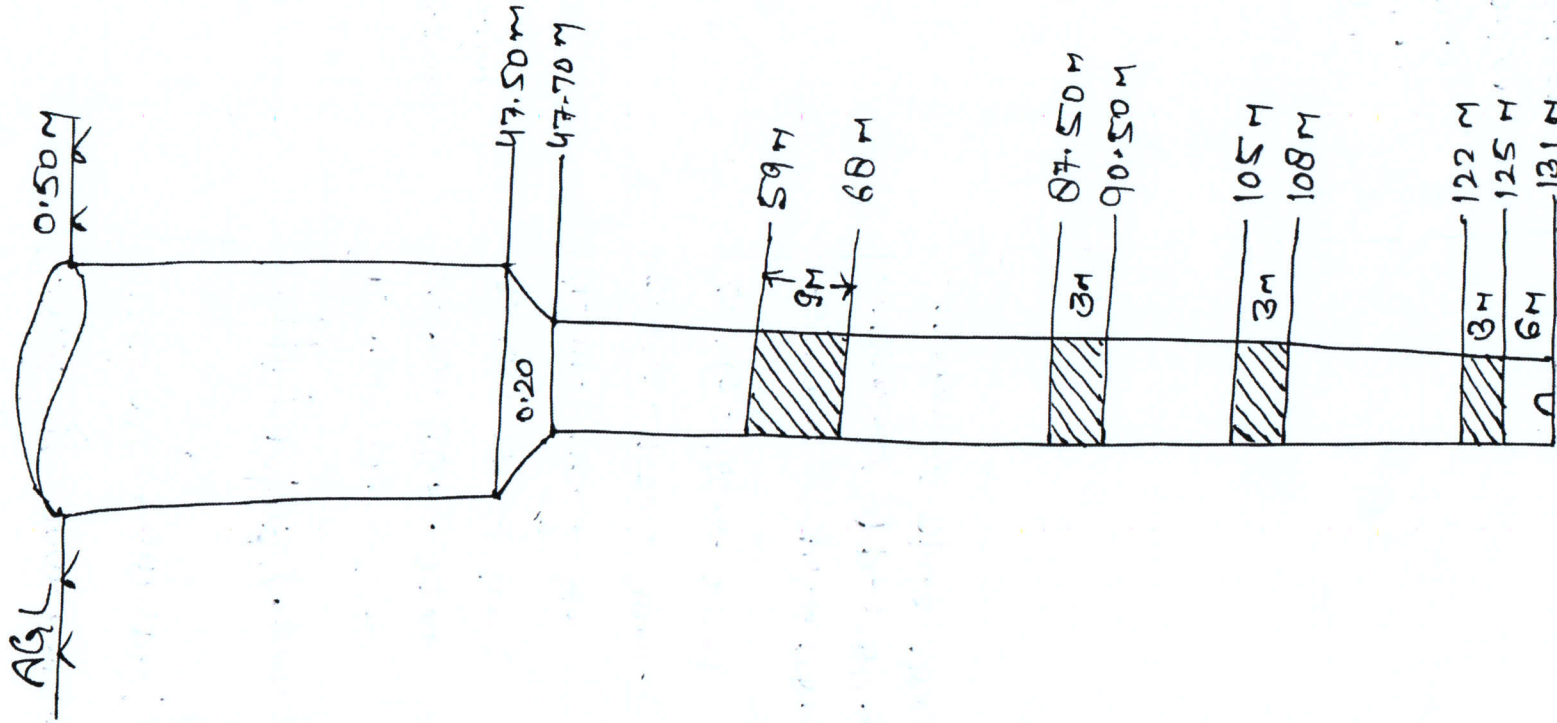
(AE, UP(IN)RURAL) E/M  
GONDA

(EE, UP(IN)RURAL) E/M  
GONDA

EXE. ENGINEER  
DIVISION OFFICE (E/M)  
U.P. JAL NIGAM RURAL GONDA



Proposed T.W. Assy. chart of Ghoghawra Kolan  
 W/S scheme Shrawasti (Block - Sirsiya)



Bores Size - 500mm x 150  
 T.W. Assy. - 200mm x 150  
 Discharge - 380mm x 46mm

Logging Report (25.07.23)

- 1- 10-22m - 12m
- 2- 22-38m - 16m
- 3- 38-69m - 11m
- 4- 69-91m - 4m
- 5- 91-109m - 6m
- 6- 109-125m - 3m
- 7- 125-150m - 2m

As per Estimate  
 - 200mm f HP → 48m  
 - 150mm f PP → 84m  
 - 150mm f SP → 10m

AGL 0.50m  
 Total 131.50m





TUESDAY

JUN '23

27

WK-26 178-187

Gihoghwa Kalam

← 0.5M

26<sup>th</sup> July 23

5.95	5.45
6.00	11.45
6.00	17.45
6.00	23.45
6.01	29.46
6.01	35.47
6.01	41.48
6.02	47.50
<del>6.02</del>	47.70

6.00

200mm Plain

$6.00 \times 4 = 24.00$

$6.01 \times 3 = 18.03$

$6.02 \times 1 = 6.02$

150mm Plain

$= 65.28 \text{ m}$

150mm Slotted

$= 18.02 \text{ m}$

~~53.70~~

5.28	58.93
3.00	61.93
6.01	67.94
1.55	69.49
6.00	75.49
6.00	81.49
6.00	87.49
3.01	90.50
2.49	92.99
6.00	98.99
6.01	105.00
3.00	108.00
1.97	109.97
6.02	115.98
6.02	122.00
3.00	125.00
6.00	131.00

May 2023

Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21