



# GROUND WATER INVESTIGATION CENTRE

(Ground Water Assessment & Allied Services)

9/43, Sector-9, Jankipuram Extension, Lucknow - 226031

Mob: 9450659011, 8840756551, 9450364183

Email: slamadesh11@gmail.com, gicaksingh@gmail.com

GSTIN: 09ANAPS3037Q1ZG

MSME: UDYAM-UP-50-0135993

Ref: GIC/JJM/ Sidharth Nagar /12

Date : 08.03.25

## GEOPHYSICAL BOREHOLE ELECTRICAL LOGGING REPORT

Site's Location : Village – Semrahana, Block – Mithaval  
Distt. – Sidharth Nagar

Drilling Depth : 185 mbgl

Logged Depth : 182 mbgl

Date of Logging : 08.03.25

Types of Log : S.P. & Resistivity (Normal & Lateral)

Logger Used : IGIS

Details of major aquifer formations explored from interpretation of Geophysical Logs are given below.

| Sl. No. | Depth Range (m, bgl) | Thickness (m) | Types of strara | $R_{mf}$ & $R_w$                                  |
|---------|----------------------|---------------|-----------------|---------------------------------------------------|
| 1       | 25 – 34              | 9             | Good            | $R_{mf} = 21.3 \Omega m$<br>$R_w = 22.9 \Omega m$ |
| 2       | 42 – 50              | 8             | Good            |                                                   |
| 3       | 57 – 66              | 9             | Good            |                                                   |
| 4       | 74 – 81              | 7             | Good            |                                                   |
| 5       | 102 – 106            | 4             | Good            |                                                   |
| 6       | 150 – 160            | 10            | Good            |                                                   |

**Remark :** Ground water quality is **good**. Almost all zones are intermixed with fine bands of kankar. Below 160 mbgl, clay kankar exist.

CC :

1. M/S VSAIPPL-SCL JV, Sidharth Nagar

  
  
(A.K. Singh)  
Geophysicist



Section 4 of Adalgim  
 hole in  
 Block - right hand  
 side of the adalgim

Tubewell size = (100x150) mm

Logging depth = 182.0 mfgl.

Drilling Date = 18.5.0 mfgl.

LPN = 200

Slotted = 24 m

Housing = 42 m

As per Logging Report

Date + 8/02/025

- ① - 25-34 = 9 m
- ② - 42-50 = 8 m
- ③ - 52-66 = 9 m
- ④ - 74-81 = 7 m
- ⑤ - 102-106 = 4 m
- ⑥ - 150-160 = 10 m

Plane Pipe cutting  $\Phi$  150 mm

- ①  $6.02 = 2.84 + 3.18$
- ②  $6.03 = 2.03 + 4.00$
- ③  $6.01 = 3.01 + 3.00$

Slotted Pipe cutting  $\Phi$  150 mm

- ①  $6.00 = 3.00 + 3.00$

Drilling depth As per DEPR = 175 m

Lowering of tubewell Assembly As per DEPR  
 = 160 m

Bore size = (600x500) mm

|   |       |        |
|---|-------|--------|
| ① | 6.01  |        |
| ② | 6.00  |        |
| ③ | 6.00  |        |
| ④ | 6.02  |        |
| ⑤ | 6.01  |        |
| ⑥ | 6.01  |        |
| ⑦ | 6.00  | 41.57  |
|   | 0.200 | 41.77  |
| ⑧ | 6.02  |        |
| ⑨ | 6.02  |        |
| ⑩ | 2.12  | 57.0   |
| ⑪ | 6.00  |        |
| ⑫ | 3.00  | 66.0   |
| ⑬ | 6.02  | 72.02  |
| ⑭ | 2.00  | 74.02  |
| ⑮ | 6.00  | 80.02  |
| ⑯ | 6.01  |        |
| ⑰ | 6.02  |        |
| ⑱ | 6.01  |        |
| ⑲ | 4.00  | 102.56 |
| ⑳ | 3.00  | 105.56 |
| ㉑ | 6.02  |        |
| ㉒ | 6.01  |        |
| ㉓ | 6.01  |        |
| ㉔ | 6.00  |        |
| ㉕ | 6.00  |        |
| ㉖ | 6.00  |        |
| ㉗ | 6.02  |        |
| ㉘ | 3.00  | 150.62 |
| ㉙ | 6.00  | 156.62 |
| ㉚ | 6.02  | 162.64 |
|   |       | 40.50  |
|   |       | 163.14 |