GROUND WATER INVESTIGATION CENTRE

(Ground Water Assessment & Allied Services)

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Ref: GIC/JJM/ Sidharth Nagar /13 **Date : 24.03.25**

GEOPHYSICAL BOREHOLE ELECTRICAL LOGGING REPORT

Site's Location : Village – Mahenuwa Khas, Block – Bhanwapur
Distt. – Sidharth Nagar

Drilling Depth : 185 mbgl

Logged Depth : 180 mbgl

Date of Logging : 24.03.25

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	30 – 36	6	Good	R_{mf} = 19.5 Ωm
2	53 – 71	18	Good	R_w = 21 Ωm
3	80 – 102	22	Good	
4	114 – 125	11	Good	
5	160 – 170	10	Good	

Remark : Ground water quality is **good.** Almost all zones are intermixed with fine bands of kankar. Below 170 mbgl, clay kankar exist.

CC :

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

(A.K. Singh)
Geophysicist

GP — Mohanua Khas & Makhinija Burzurg.

Block → Bhanwapur Sidharth Nagar.

Tubewell : 2nd tubewell

Tubewell size : (200×150) mm

Drilling Depth As per DPR : 165 m

Lowering of tubewell Assembly As Per DPR = 150 m

BORE size = (500×500) mm

Slotted Pipe As per DPR = 18 m

Logging Depth = 180 mbgl

Drilling Depth = 185 mbgl

LPM = 550

Slotted = 24 m (As per Logging Report)

Housing = 42 m

As per Logging Report

Date = 24/03/025

1. 30 - 36 = 6 m
2. 53 - 71 = 18 m
3. 80 - 102 = 22 m
4. 114 - 125 = 11 m
5. 160 - 170 = 10 m

⇔ Plane pipe cutting ϕ 150 mm

1. 6.02 = 3.00 + 3.02
2. 6.01 = 4.00 + 2.01

⇔ Slotted Pipe cutting ϕ 150 mm

1. 6.00 = 3.00 + 3.00