



Earth Care Products & Services



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Services Offered: Groundwater and Geophysical Consultancy

Ref No. Elog/Usiya/1225/23-24

Date 25.12.2023

ELECTRICAL LOGGING TEST REPORT

BORING METHOD APPLIED : Direct Mud Circulation by Mechanized Rotary Rig

SITE : Usiya Zonell

LOCATION : Block : Bhadawa, Dist : Ghazipur , State : Uttar Pradesh

LATITUDE : 25.44285° North

LONGITUDE : 83.702362° East

Logger Make and Model ; IGIS, DMPL2

Borehole Drilled by (Agency) : HFCL.

Work Under (Department) : Uttar Pradesh Jal Nigam , Gramin

FINDINGS & RESULTS.

DEPTH DRILLED : 200.00 mtrs (As Reported by Drilling Agency)

DEPTH ELECTROLOGGED : 200.00 mtrs

RW : 23.55 Ω M RM : 12.47 Ω M

AQUIFER ZONE (As per Electrologging Findings) (Based on the Electrolog findings , granular Sand Zones and aquifer zones are interpreted)

| SI No | Depth (M BGL) | Thickness | Lithology /Stratum interpreted | Remarks/ Quality of Aquifer |
|-------|----------------|-----------|--------------------------------|-----------------------------|
| 1 | 15-20m | 5 m | Clay & Kankad | Good To Moderate |
| 2 | 42-55 m | 13 m | Medium Sand | Good to Moderate |
| 3 | 75-95m | 20 m | Medium to Coarse Sand | Good to Moderate |
| 4 | 120 -140 m | 20 m | Medium to Coarse Sand | Good |
| 5 | 175- 190 m | 15 m | Medium Sand | Good |

(Parameters measured : SP , SN (16") ,LN (64"), Lat(32") with Continuous mode Electrologging)

REMARKSAND SUGGESTION:

1. Chiefly the stratum is composed of primarily Clay , kankad and Sand Zones
2. Large sections of water bearing zones (Sand) are there
3. Water quality in sand zones is good in zones 175 m-190 m, 120 m- 140 m, good to moderate at 75 m-95 m, 42 m-55 m,
4. Predominant Clay zones presence is there at 0 m-15 m, 20-30 m, 190m-200m
5. All the Clay Zones are intercalated with Kankar


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Rho a
N 16(SN)
N 64 (LN)
LAT

LOCATION: us/ja zone 0
Log No.:
DOWN LOGGING
Date: 25 Dec 2023
Time: 12:58
Observer: bkrm
Well Depth: 200
Notes:

Logger S No.:
IGIS/S/01/22-23

SP

Logger Model:
DMPL-2

Logger Owned by:

EARTH CARE
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KOLKATA
India

