



Earth Care Products & Services



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Services Offered: Groundwater and Geophysical Consultancy

Ref No. Elog/Baswari /0919/23-24

Date 19.09.2023

ELECTRICAL LOGGING TEST REPORT

BORING METHOD APPLIED : Direct Mud Circulation by Mechanized Rotary Rig

SITE : Baswari Village ,

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

LATITUDE : 25.87645° North

LONGITUDE : 83.60475° East

Logger Make and Model ; IGIS, DMPL2

Borehole Drilled by (Agency) : HFCL

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

FINDINGS & RESULTS.

DEPTH DRILLED : 360.00 mtrs (As Reported by Drilling Agency)

DEPTH ELECTROLOGGED : 360.00 mtrs

RW : 9.67 Ω M RM : 23.12 Ω M

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

SI No	Depth (M BGL)	Thickness	Lithology /Stratum interpreted	Remarks/ Quality of Aquifer
1	10- 25 m	15 m	Kankad	Good
2	138 -148 m	10 m	Kankad	Good to moderate
3	178- 188m	10 m	Coarse Sand	Good to moderate
4	215-228 m	13 m	Medium Sand	Good to moderate
5	260-265 m,	15 m	Kankad	Good to moderate
6	268-272 m,	4 m	Medium Sand	Good to moderate
7	290-310 m	20 m	Medium Sand	Good
8	320-330 m	10 m	Medium Sand	Good
9	340-350 m	10 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 , sand and kankad
2. Large Aquifer (Sand sections) of water bearing zones is there in the higher depth
3. Water quality in zones is good at 290 m-310 m, 320m-330 m, 340 m-350 m, 10 m-25 m whereas good to moderate at 268 m-372m, 260m-265m, 215 m-228m, 138 m-148m, moderate at 178 m-188m,
4. Predominant clay zones are there 80 m-180m with intercalated kankad zones

(Signature)
19/09/2023
M.Sc (G.I), PGD (GEM)
M.Phil (Hydrogeology)
Hydrogeologist & Groundwater Consultant

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

Location :
Survey :
Log No :
UP LOGGING
Date :
19 Sep 2023
Time :
19:26
Operator :
Logam
Well Depth :
300
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

