



Earth Care Products & Services



G/1, Sriniketan Apartment, 65 Sukanta Park, P.O. Prafulla Kanan, Kolkata – 700101

Mob: 9339638868, 62900236454 email : ecpskol@gmail.com

Services Offered: Groundwater and Geophysical Consultancy

Ref No. Elog/Tavkalpur/1130/23-24

Date 02.12.2023

ELECTRICAL LOGGING TEST REPORT

BORING METHOD APPLIED : Direct Mud Circulation by Mechanized Rotary Rig

SITE : Tavkalpur

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

LATITUDE : 25.78910° North

LONGITUDE : 83.59452° 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 : 350.00 mtrs

RW : 12.86 Ω M RM : 10.83 Ω M


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

Sl No	Depth (M BGL)	Thickness	Lithology /Stratum interpreted	Remarks/Quality of Aquifer
1	20-40 m	20 m	Fine Sand	Good
2	50- 60 m	10 m	Fine Sand & Kankad	Moderate
3	210-230 m	20 m	Kankad & Clay	Good to Moderate
4	242- 248 m	6 m	Kankad & Clay	Good to Moderate
5	265-295 m	30 m	Kankad & Fine 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 and Kankad with small Sand Zones
2. Very Small sections of water bearing zones (Sand) are there
3. Water quality in sand zones is good in zones 265 m-295 m and Good to moderate at 242 m-248 m ,210-230m, 50m-60m
4. Predominant Clay zones presence is there at 0 m-20 m, 60-210 m, 300-350 m
5. All the clay and Sand zones present are intermixed with kankads


(Sandeep Gupta)
M.Sc (G.I.) PGD (GEM)
M.Phil (Hydrogeology)
Hydrogeologist & Ground Water Consultant

(Sandeep Gupta)
M.Sc (G.I.),PGD(GEM)
M.Phil (Hydrogeology)
Hydrogeologist & Groundwater Consultant