



# GEO – TECHNICAL CONSULTANT

(Division of MACHITECH)

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Ref : MTL/VL/23-24/281

Date 19.06.2023

## REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

A deep borehole was drilled by working agency M/s. Power Mech Projects Ltd as a part of their scope of work of development of Tubewell under Jal Jeevan Mission Project of SWSM, MTL conducted a Geophysical Continuous logging in the above borehole.

Village Name	Bhawanpur
Block	Bihar
District	Pratapgarh, U.P.
Logged Depth	304.4 Mtr BGL
Type of Log	Continuous well logger (SP, N16 (SN), N64 (LN) & LAT)
Machine Used	IGIS
Logging Date	18.06.2023

The following aquifer zones have been deciphered with the help of logging machine.

Sr. No.	Depth Range (mtr BGL)	Thickness (mtr)	Expected Quality
<del>1</del>	20 – 25	5	Good
<del>2</del>	29 – 36	7	Good
<del>3</del>	148 – 157	9	Moderate
<del>4</del>	170 – 174	4	Moderate
<del>5</del>	180 – 185	5	Moderate

~~R<sub>10</sub> = 14.0 Ohm mtr and R<sub>11</sub> = 17.8 Ohm mtr~~

Note: THE FORMATION WATER QUALITY IS DETERIORATING FROM MARGINAL TO SALINE IN BETWEEN 48-128 AND FURTHER BELOW 196MBGL .

PREDOMINANT CLAT KANKAR INTERCALATION PRESENT IN BETWEEN 128-148MBGL.

- Logging performed as per SWSM guidelines  
- Groundwater quality interpreted by firm as per their logger calibration  
GSR  
19/06/23

For Geo-Technical Consultant,

Authorised Signatory