8110	aar	vee as	SSOCI	ates
	architec	ts engineers &	& consultants	pvt. ltd.
	Logging at : Village	: Sikhera, Block : Pilana, Dist: Baghpat,, U	. <i>P</i> 1	
	REPORT ON	GEO-PHYSICAL RESISTIVITY	LOGGING OF BOREHOLE	
		At		
		Village : Sikhera	L .	
	Blo	ock : Pilana, Dist: Baghpat,	Uttar Pradesh.	
	Introduction:			
		oorehole 142m (466 Feet) was dril		
		cts Private Limited, Baghpat, U.P, oment of tubewell under Jal Jeevar		
		ed a Geophysical Resistivity logg		
	using IGIS's Lo	gger dated on 19 th October, 2023		
	Based or	n the interpretation of the logg	ing, the following lithology	
		red which tallies fairly well		
	1 1			
	based on mud-	wash samples.		
	Depth in m	wash samples. <i>Expected Litholog</i>	Expected Quality	
			Expected Quality	
	Depth in m 0 - 3	Expected Litholog Surface Soil	Expected Quality	
	Depth in m 0 - 3 3 - 9	Expected Litholog Surface Soil Clay	Expected Quality	
	Depth in m 0 - 3 3 - 9 9 - 13	Expected Litholog Surface Soil Clay 5 Fine sand	Expected Quality	
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22	Expected Litholog Surface Soil Clay Fine sand Clay Clay	Expected Quality	
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22 22 - 34	Expected Litholog Surface Soil Clay Fine sand Clay Clay Clay Clay with kankar		
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22 22 - 34 34 - 59	Expected Litholog Surface Soil Clay Fine sand Clay Clay Clay Clay Clay Fine source Source Fine source Source Source Source Clay Source Clay Source Source Source	Expected Quality Good	
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22 22 - 34 34 - 59 59 - 62	Expected Litholog Surface Soil Clay Fine sand Clay Clay with kankar Fine to medium sand Clay Clay	Good	
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22 22 - 34 34 - 59 59 - 62 62 - 74	Expected Litholog Surface Soil Clay Fine sand Clay Clay Clay with kankar Fine to medium sand Clay Hedium sand		
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22 22 - 34 34 - 59 59 - 62 62 - 74	Expected Litholog Surface Soil Clay Fine sand Clay Medium sand Medium sand Clay	Good Good	
	Depth in m 0 - 3 3 - 9 9 - 13 13 - 22 22 - 34 34 - 59 62 - 74 74 - 84 84 - 87	Expected Litholog Surface Soil Clay Clay Fine sand Clay Clay Clay with kankar Clay Fine to medium sand Clay Clay Clay Fine to medium sand Clay Clay Fine sand Fine sand Clay Fine sand Clay	Good	
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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Expected LithologSurface Soil ClayClayClayClay with kankarFine to medium sandClayClayMedium sandClayFine sandClayMedium sandClayMedium sandClayMedium sandClayMedium sandClayMedium sandMedium sandMe	Good Good Good Good	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Expected Litholog Surface Soil Clay S Fine sand Clay Clay Clay with kankar Fine to medium sand Clay K Medium sand Clay Fine sand Clay Medium sand Clay Medium sand Clay Medium sand Clay Medium sand Clay Clay Fine sand Clay Clay Clay Substant Clay Clay Substant Clay Clay Substant Clay Clay Clay Clay Substant Clay Substant Clay Substant Clay Clay Substant Clay Substant Clay Substant Clay Clay Substant Clay Substant Clay Substant Clay Substant Clay Substant Clay Clay Substant Clay Substant Clay Substant C	Good Good Good Good	

Logging at : Village : Sikhera, Block : Pilana, Dist: Baghpat,, U.P

Conclusions and Recommendations:

1. The litholog inferred broadly tallies with that of the well-site litho-log.

aarvee associate

hitects engineers & consultants pvt.

- 2. The zones marked with asterisk (*) appear to be aquifer zones for possible development of tubewell.
- 3. As per thickness of the Aquifer the expected discharge is 30,000 LPH to 40,000 LPH.
- 4. Water Level is 19 m below ground level.
- 5. The Quality of water is good upto 123 m below ground level. Blow 123 m quality is Saline. However It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
- 6. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.

for Global Groundwater Consultants

M2 hands

M.Ravikanth Hydrogeologist

Global Groundwater Consultants Consulting Geologists and Geophysists lto

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