

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- 194

Date:- 17-12-2021

### NAME OF SITE

GRAM PANCHAYAT- Harchandpur      BLOCK- Khekda      DISTT- Bagpat

### NAME OF AGENCY

M/S LC Infra Projects Pvt. Ltd.  
Bagpat



## GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.  
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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- HARCHANDPUR, BLOCK- KHEKDA, DISTT- BAGPAT UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 150 mtrs. at above site. Was drilled by M/S LC Infra Projects Pvt. Ltd., Bagpat. On the request of M/S LC Infra Projects Pvt. Ltd., Bagpat. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 17.Dec.2021. Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

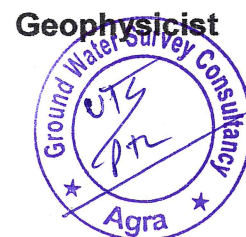
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Dry sand	
3.	20 - 25	5	Clay kankar	
4.	25 - 29	4	Fine sand	
5.	29 - 32	3	Sandy clay	
6.	32 - 56*	24	Medium sand	Medium
7.	56 - 60	4	Sandy clay	
8.	60 - 70*	10	Medium sand	Medium
9.	70 - 80	10	Clay kankar	
10.	80 - 86*	6	Fine sand	Medium
11.	86 - 102	16	Clay kankar	
12.	102 - 108	6	Sandy clay	
13.	108 - 130	22	Clay kankar	
14.	130 - 140	10	Fine to Medium sand	Seline
15.	140 - 145	5	Clay kankar	
16.	145 - 150	5	Fine sand	

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**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting starta chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Medium.
4. Strata 80 to 86 in recommended du to in sufficient strata for tubewell construction.
5. Expected discharge is 500 to 600 L.P.M.
6. Water bearing strata 130 to 140 mtr. is expected TDS 1000 to 1500.
7. 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.
8. 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.



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Rho a

- N 16(S/N)
- N 64 (L/N)
- LAT

Location:  
 Logging V. Narayanaoou  
 Block: Khandas Distt  
 Bagayat  
 Log No.  
 DOWN LOGGING/Down  
 Date  
 17 Dec 2021  
 Time  
 10:06  
 Operator  
 Karan Sharma  
 Well Depth

SP

