

**GROUND WATER SURVEY CONSULTANCY**  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:- B- 1720

Date:- 17-09-2023

**NAME OF SITE**

GRAM PANCHAYAT- Nagla Sarup

BLOCK- Etmadpur

DISTT- Agra

**NAME OF AGENCY**

M/s Shishupal Singh Parihar  
Agra



**GROUND WATER SURVEY CONSULTANCY**

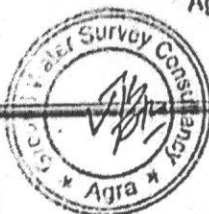
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NAGLA SARUP, BLOCK- ETMADPUR, DISTT- AGRA

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 107 mtrs. at above site. Was drilled by M/s SHISHUPAL SINGH PARIHAR AGRA  
On the request of M/s. SHISHUPAL SINGH PARIHAR AGRA a Geophysical well Logging in the above bore hole using IGIS Well Logger on 17.Sep.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral.  
Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 13.30 Ohms.

Drilling Water Resistivity = 14.60 Ohms.

Approx Water Level = 24 Mtr.

	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Dry sand	
3.	15 - 22	7	Clay kankar	
4.	22 - 28	6	Sand & kankar	
5.	28 - 36	8	Clay kankar	
6.	36 - 42	6	Medium sand	Medium
7.	42 - 50	8	Clay kankar	
8.	50 - 55	5	Kankar & sand	
9.	55 - 60	5	Clay kankar	
10.	60 - 66*	6	Fine to medium sand	Medium
11.	66 - 73	7	Clay kankar	
12.	73 - 80*	7	Fine to medium sand & kankar	Medium
13.	80 - 107	27	Clay kankar	



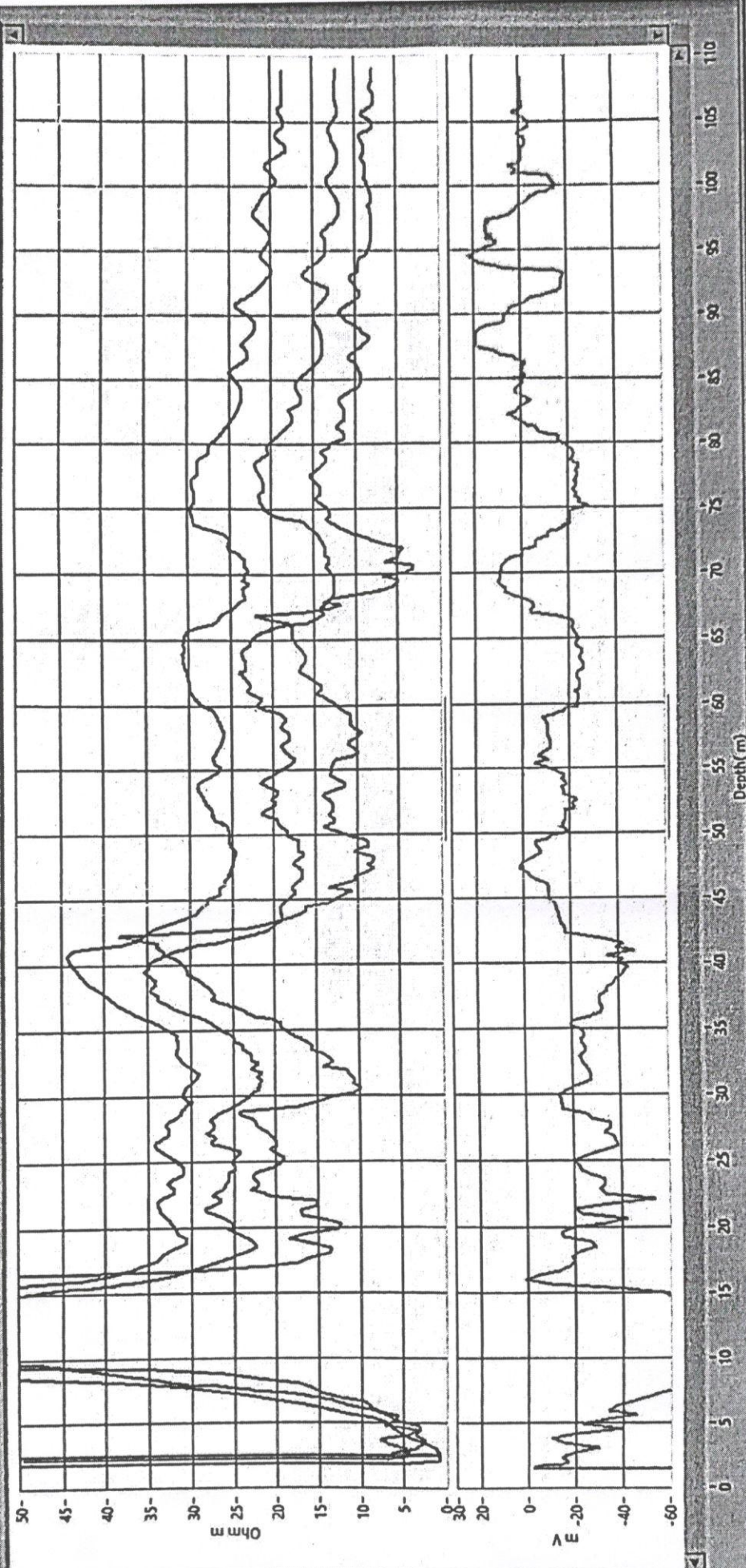
**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Medium.
4. 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.
5. 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.

**Geophysicist**



**Ground Water Survey Consultancy**



**Rho a**  
 N16 (SK)  
 N64(LN)  
 LAT

**Location:**  
 logging v naga sarab  
 rock atmapur agra

**Log No:**  
 UP LCGS/56

**Date:**  
 17 Sep 2023

**Time:**  
 14:15

**Observer:**  
 V. Sarabgupta (v/m)

**Well Depth:**

**Logger S/No:**  
 IGLS/501/10-11

SP  
**Logger Model:**  
 DMPL-2

**Logger Owned by:**  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 - AGRA INDIA

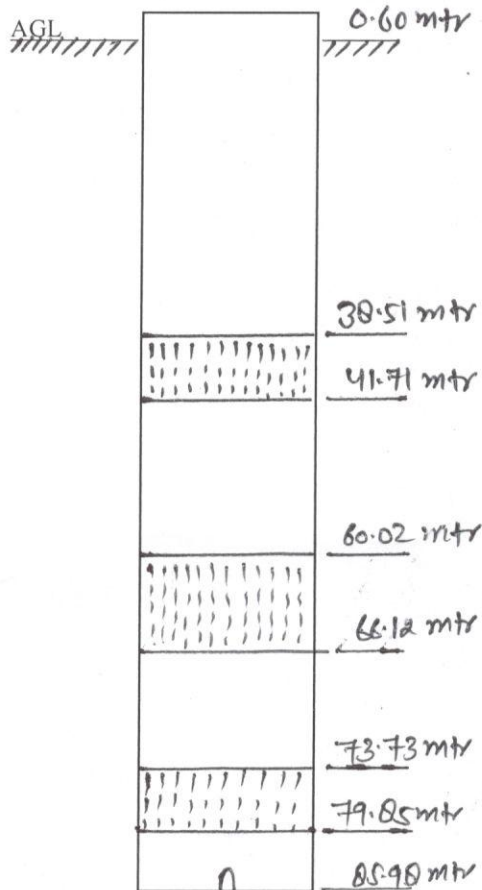
Survey Consultancy  
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ACTUAL TUBEWELL ASSEMBLY

Name of Scheme: Nagla Sarup Rebores TW      Block: Etmadpur      Tehsil: Etmadpur  
 District: Agra      C.B. No. 01/SE/2023-24  
 Name of Contractor: M/s Shishupal Singh Parihar      Logging Date: 17.09.2023  
 Drilling Completion Date: 16.09.2023      Logging By: Ground Water Survey Consultancy  
 Size of Assembly: 200x200 mm      Static Water Level: 26.90 m

1. Strata as per Drilling/Logging:-

0-5 mtr	Surface soil
5-20 mtr	Dry sand
20-22 mtr	Clay Kankar
22-25 mtr	Sand & Kankar
25-34 mtr	Clay Kankar
34-41 mtr	Fine to medium sand
41-59 mtr	Clay Kankar
59-66 mtr	Fine to medium sand
66-70 mtr	Clay Kankar
70-75 mtr	Sand & Kankar
75-90 mtr	Clay Kankar



2. Strata quality as per Zone Testing-

m	34-43	(540	TDS)
m	52-67	(460	TDS)
m	79-88	(539	TDS)

Prepared By

Junior Engineer

Recommended By

Assistant Engineer

Approved By

Executive Engineer

