

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B- 1618

Date:- 26-08-2023

### NAME OF SITE

AT SITE- Tamanchgarh

BLOCK- Etmadpur

DISTT- Agra

### NAME OF AGENCY

Shishupal Singh Parihar  
Agra



## GROUND WATER SURVEY CONSULTANCY

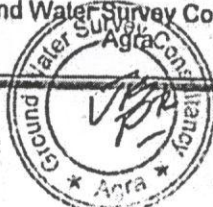
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

AT SITE- TAMANCHGARH, BLOCK- ETMADPUR, DISTT- AGRA  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 100 mtrs. depth and logged depth 90 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 is conduct at above bore hole using IGIS Well Logger on 26.Aug.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:-

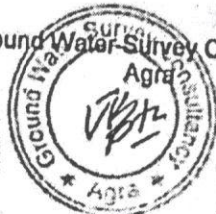
Mud Resistivity = 15.36 Ohms.

Drilling Water Resistivity = 16.58 Ohms.

Approx Water Level = 25 Mtr.

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 - 22	2	Clay kankar	
4.	22 - 25	3	Sand & kankar	
5.	25 - 34	9	Clay kankar	
6.	34 - 41*	7	Fine to medium sand	Medium
7.	41 - 59	18	Clay kankar	
8.	59 - 66*	7	Fine to medium sand	Medium
9.	66 - 70	4	Clay kankar	
10.	70 - 75	5	Sand & kankar	Medium
11.	75 - 90	15	Clay kankar	

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**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 tubewell.
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**



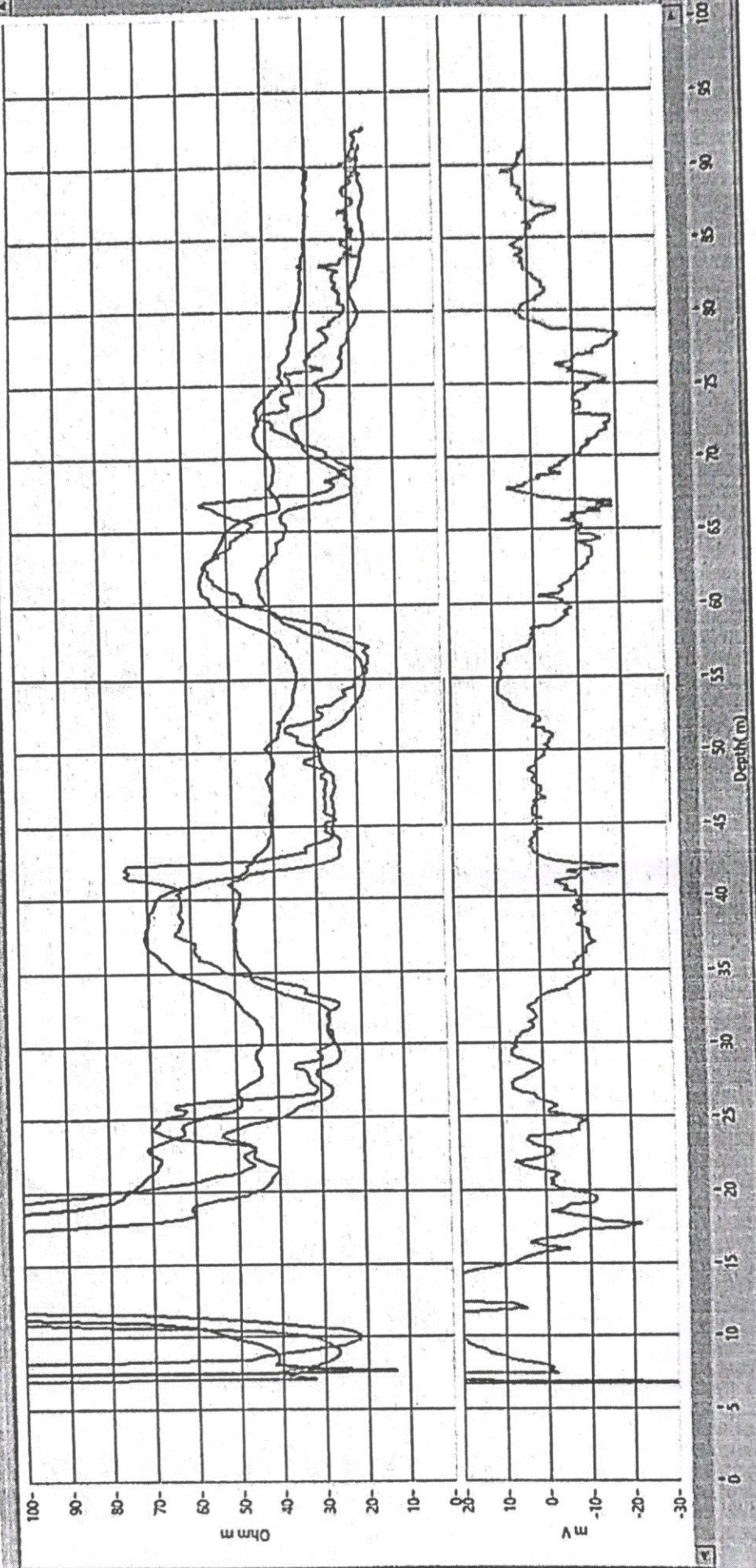
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Rho a  
 N 16(SN)  
 N 64 (LN)  
 LAT

Location: 622 No. 1st St. N. W. Washington  
 Project: 622 No. 1st St. N. W. Washington  
 Log No.: UF LOGS 5/2  
 Date: 26 Aug 2023  
 Time: 17:28  
 Operator: [Signature]  
 Instrument: [Signature]

Log Sheet No: 1025/04/21-22

Logge Mode:  SP  
 DMP1-2  
 Logge Owned by: GROUND WATER SURVEY CONSULTANCY - AGRA INDIA

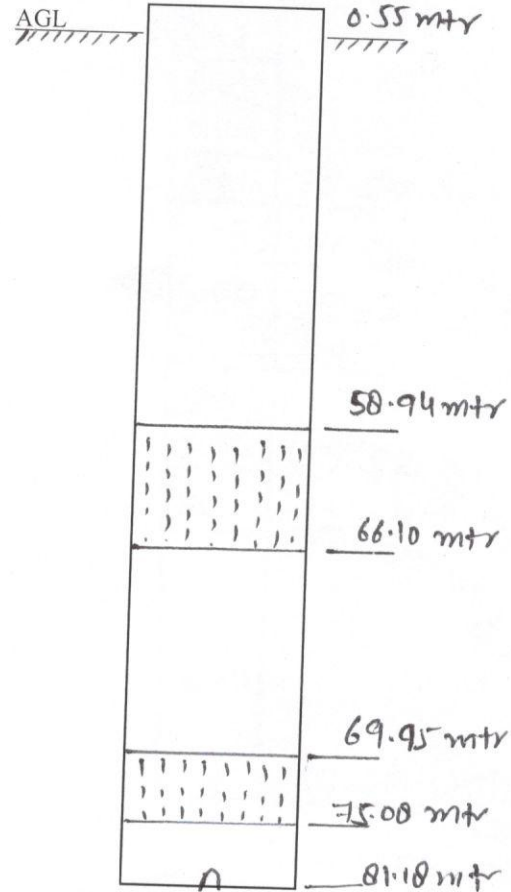


ACTUAL TUBEWELL ASSEMBLY

Name of Scheme: Tamachgarh TW no. 2 Block: Etmadpur Tehsil: Etmadpur  
District: Agra C.B. No. 01/SE/2023-24  
Name of Contractor: M/s Shishupal Singh Parihar Logging Date: 26.08.2023  
Drilling Completion Date: 25.08.2023 Logging By: Ground Water Survey Consultancy  
Size of Assembly: 200x200 mm Static Water Level: 35.7 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	34-46	(242 TDS)
m	52-61	(262 TDS)
m	80-92	(99 TDS)

Prepared By



*[Signature]*  
Junior Engineer

Recommended By

*[Signature]*  
Assistant Engineer

Approved By

*[Signature]*  
Executive Engineer

Low Budget

G.P. : Tamaahgarh Rebores T.W No-01

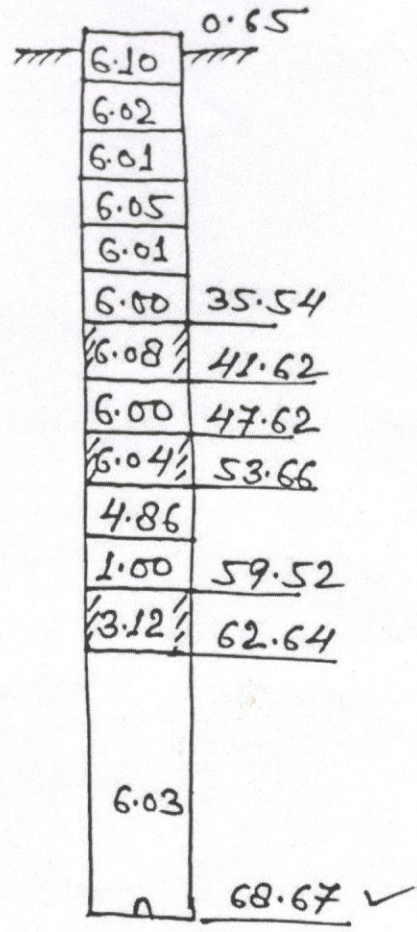
Block : Etmadpur District : Agra

Required : 150 LPM

(As per Actual)

300mm dia Plain Pipe : }  
 200mm dia Plain Pipe : } 100 mtr  
 200mm dia Slotted Pipe : }

Streta :-



SPD

6.10  
 6.01  
 4.86  
 4.17 → 1.00 + 3.17

6.02  
 6.01  
 6.00  
 6.00  
 6.03  
 6.05

$7.25 - 3.17 = 54.08 \text{ mtr}$

S.P

3.12  
 6.04  
 6.08  
15.24 mtr

300mm dia Plain Pipe	: X
300X200 mm Reducer	: X
200mm dia Plain Pipe	: 54.08 mtr
200mm dia Slotted Pipe	: 15.24 mtr
<b>Total</b>	<b>: 69.32 mtr</b>