

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

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-N-870

Date:- 19-01-2023

**NAME OF SITE**

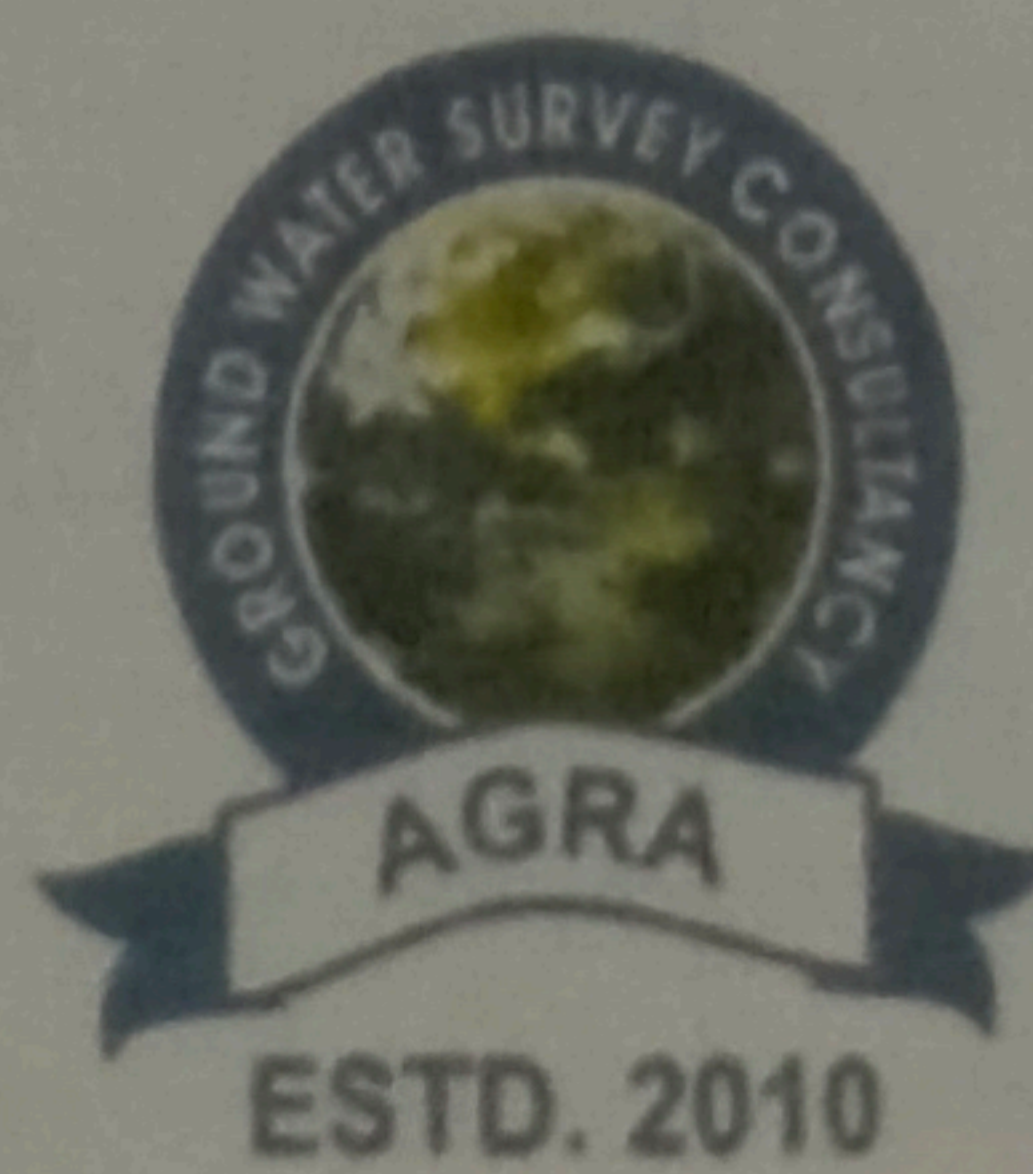
Gram Panchayat- Devi Pura

BLOCK- Shahabad

DISTT- Rampur

**NAME OF AGENCY**

M/s NKG Infrastructure Limited  
Delhi



**GROUND WATER SURVEY CONSULTANCY**

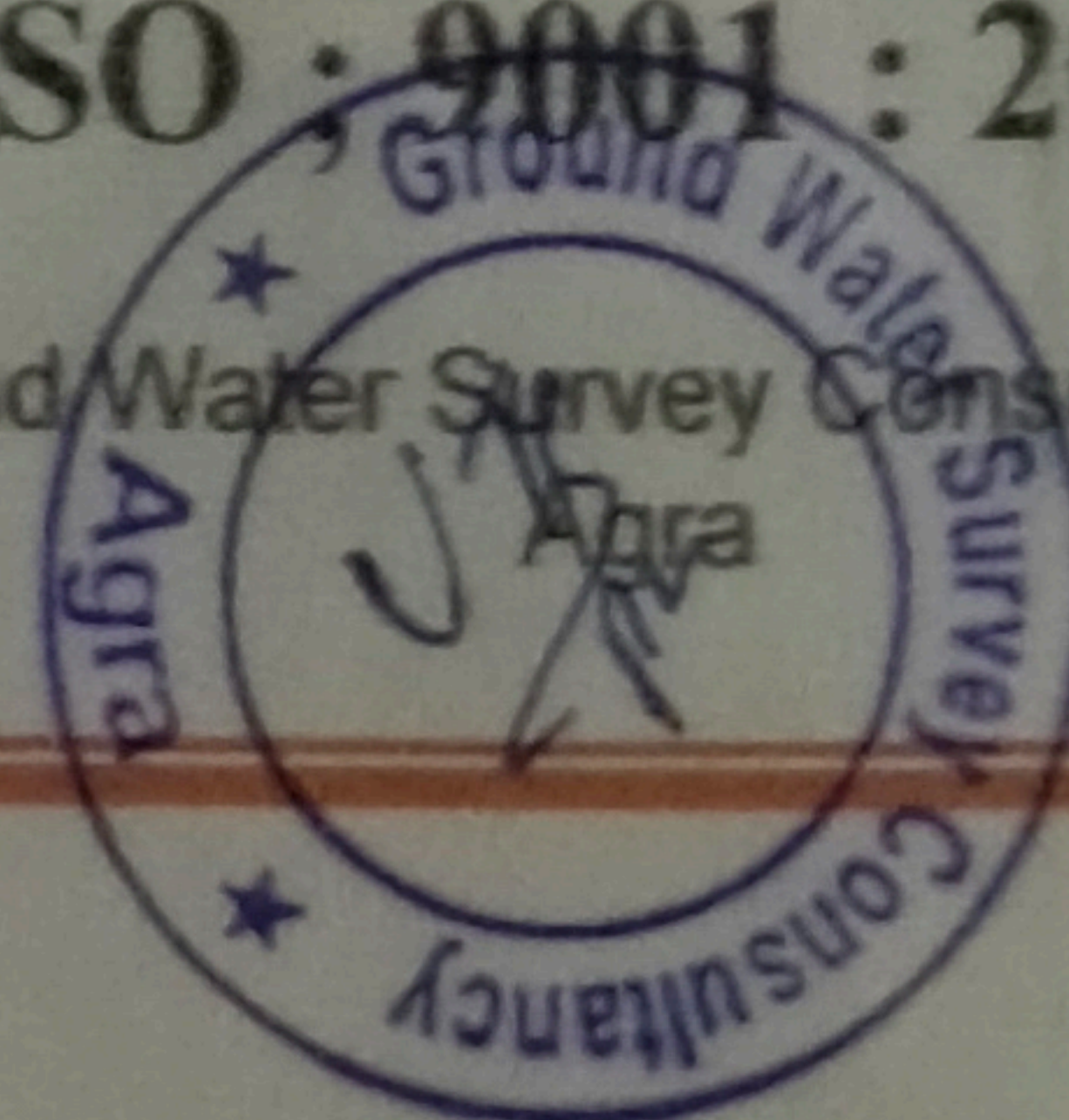
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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**ISO : 9001 : 2015**

Ground Water Survey Consultancy



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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DEVI PURA, BLOCK- SHAHABAD, DISTT- RAMPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/s NKG Infrastructure Limited, Delhi.

On the request of M/s NKG Infrastructure Limited, Delhi. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.Jan.2023.

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 - 14         | 9            | Dry sand            |                        |
| 3.    | 14 - 21        | 7            | Clay kankar         |                        |
| 4.    | 21 - 27        | 6            | Fine sand           | Good                   |
| 5.    | 27 - 32        | 5            | Clay kankar         |                        |
| 6.    | 32 - 69*       | 37           | Medium sand         | Good                   |
| 7.    | 69 - 78        | 9            | Clay kankar         |                        |
| 8.    | 78 - 86*       | 8            | Fine to Medium sand | Good                   |
| 9.    | 86 - 90        | 4            | Clay kankar         |                        |
| 10.   | 90 - 95*       | 5            | Fine to Medium sand | Good                   |
| 11.   | 95 - 107       | 12           | Clay kankar         |                        |
| 12.   | 107 - 110*     | 3            | Medium sand         | Good                   |
| 13.   | 110 - 122      | 12           | Clay kankar         |                        |
| 14.   | 122 - 138*     | 16           | Medium sand         | Good                   |
| 15.   | 138 - 140      | 2            | Clay kankar         |                        |



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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 Good.
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**



