

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B-2803

Date:- 30-12-2023

NAME OF SITE

GRAM PANCHAYAT- Nawadia BLOCK- Milak DISTT- Rampur

NAME OF AGENCY

M/s PNC-SPML-JV
Rampur
22, CAMAC STREET, BLOCK-A, 3rd FLOOR, KOLKATA-700016



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- NAWADIA, BLOCK- MILAK, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Rampur.

On the request of M/S PNC-SPML-JV, Rampur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 30.Dec.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:-

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 10 | 5 | Clay kankar | |
| 3. | 10 - 26 | 16 | Medium sand | Medium |
| 4. | 26 - 30 | 4 | Clay kankar | |
| 5. | 30 - 40 | 10 | Medium sand | Medium |
| 6. | 40 - 52 | 12 | Clay kankar | |
| 7. | 52 - 64* | 12 | Medium sand | Medium |
| 8. | 64 - 70 | 6 | Clay kankar | |
| 9. | 70 - 75* | 5 | Fine to Medium sand | Medium |
| 10. | 75 - 77 | 2 | Clay kankar | |
| 11. | 77 - 89* | 12 | Medium sand | Medium |
| 12. | 89 - 95 | 6 | Clay kankar | |
| 13. | 95 - 108* | 13 | Medium sand | Medium |
| 14. | 108 - 112 | 4 | Clay kankar | |
| 15. | 112 - 118* | 6 | Fine to Medium sand | Medium |
| 16. | 118 - 120 | 2 | 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 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.

Geologist

Rho a
M16 (SN)
NS4(LIN)
LAT

Logging Details
Logging at a hand-dug bore
near dam/pond
UTM: QGQ345, 40
35 00m 2023
1548
"Bore: QGQ345/35"

Logger SI No:
IGIS/S/01/10-11

SP (m V)

Logger Model:
DHPL-2
Logger Owned by:
Ground Water
Survey Consultancy
Agra UP India

