

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A- 567

Date:- 29-03-2023

NAME OF SITE

GRAM PANCHAYAT- Mawana

BLOCK- Swar

DISTT- Rampur

NAME OF AGENCY

M/s PNC-SPML-JV

Moradabad

22, CAMAC STREAT, BLOCK-A, 3rd FLOOR, KOLKATA-700016

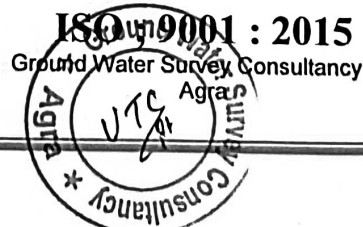


GROUND WATER SURVEY CONSULTANCY

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



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MAWANA, BLOCK- SWAR, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 125 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Moradabad.

On the request of M/S PNC-SPML-JV, Moradabad. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 29.Mar.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 | Sandy clay | |
| 3. | 10 - 15 | 5 | Clay kankar | |
| 4. | 15 - 25 | 10 | Sand & kankar | |
| 5. | 25 - 28 | 3 | Clay kankar | |
| 6. | 28 - 32 | 4 | Fine sand | Good |
| 7. | 32 - 37 | 5 | Clay kankar | |
| 8. | 37 - 41 | 4 | Fine to Medium sand | Good |
| 9. | 41 - 55 | 14 | Clay kankar | |
| 10. | 55 - 60* | 5 | Fine to Medium sand | Good |
| 11. | 60 - 64 | 4 | Clay kankar | |
| 12. | 64 - 76* | 12 | Medium sand & kankar | Good |
| 13. | 76 - 88 | 12 | Clay kankar | |
| 14. | 88 - 92* | 4 | Fine to Medium sand | Good |
| 15. | 92 - 102 | 10 | Clay kankar | |
| 16. | 102 - 110* | 8 | Medium sand | Good |
| 17. | 110 - 120 | 10 | 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 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.



Ground Water Survey Consultancy

Logging vi Nawana
block: Smaar distt
rampur 2
LOGGINGDOWN
29 Mar 2023
21:55
utkarsh gupta
(arvind)

Rho a
N16 (SN)
N64 (LN)
LAT

SP (m V)

