

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B-1957

Date:- 08-10-2023

NAME OF SITE

GRAM PANCHAYAT- Bendu Khera

BLOCK- Said Nagar

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



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BENDU KHERA, BLOCK- SAID NAGAR, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

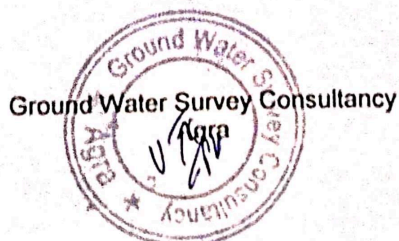
Introduction :

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 08.Oct.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 - 8 | 3 | Clay kankar | |
| 3. | 8 - 15 | 7 | Fine sand | |
| 4. | 15 - 20 | 5 | Clay kankar | |
| 5. | 20 - 32 | 12 | Fine to Med sand & kan | Med to Good |
| 6. | 32 - 37 | 5 | Clay kankar | |
| 7. | 37 - 60* | 23 | Medium sand | Med to Good |
| 8. | 60 - 71 | 11 | Clay kankar | |
| 9. | 71 - 95* | 24 | Medium sand | Med to Good |
| 10. | 95 - 100 | 5 | Clay kankar | |
| 11. | 100 - 110* | 10 | Medium sand | Med to Good |
| 12. | 110 - 115 | 5 | Clay kankar | |
| 13. | 115 - 118 | 3 | Fine sand | Med to Good |
| 14. | 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 to 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

Rig No: NTE (SN)
 NIS (LN)
 LAT
 Logging Details:
 Logging: Borehole
 Tool: 2-1/2" dia
 Sensor: US (C/O) 2000
 Date: 02 Oct 2023
 23:00
 User: GWS/10-11

