GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B- 1285

Date:- 15-07-2023

NAME OF SITE

GRAM PANCHAYAT- Bosena

BLOCK-Bilaspur

DISTT-Rampur

NAME OF AGENCY

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



GROUND WATER SURVEY CONSULTANCY

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Ground Water Survey Consultancy

REPORT ON GEOPHYSICAL WELL LOGGING

GRAM PANCHAYAT- BOSENA, BLOCK- BILASPUR, DISTT- RAMPUR UNDER JAL JIVAN MISSION

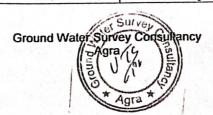
Introduction:

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 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 15.July.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 - 7 | 2 | Clay kankar | |
| 3. | 7 - 10 | 3 | Fine sand | |
| 4. | 10 - 16 | 6 | Clay kankar | |
| 5. | 16 - 25 | 9 | Kankar | 10 m |
| 6. | 25 - 37 | 12 | Clay kankar | -4 |
| 7. | 37 - 42 | 5 | Sand & kankar | w. |
| 8. | 42 - 51 | 9 | Clay kankar | |
| 9. | 51 - 56 | 5 | Fine sand | |
| 10. | 56 - 64 | 8 | Clay kankar | |
| 11. | 64 - 72* | 8 | Fine to Medium sand | Medium |
| 12. | 72 - 75 | 3 | Clay kankar | |
| 13. | 75 - 81* | 6 | Fine to Medium sand | Medium |
| 14. | 81 - 97 | 6 | Clay kankar | |
| 15. | 97 - 100* | 3 | Fine to Medium sand | Medium |
| 16. | 100 - 110 | 10 | Clay kankar | |



Conclusions and Recommendations :-

- The Lithology broadly tallies with that of drill cutting strata chart.
- The zones marked with asterisk (*) appear to be aquifer zones for possible development of tubewell.
- The Quality of water is expected Medium.
- 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

