



Aqua Xplore

(Groundwater Assessment & Allied Services)

243/5, New Colony Jiyamau, Hazratganj, Lucknow – 226001
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Advisor – Dr. R. A. Yadav, ex-Manager (Groundwater), U. P. Jal Nigam

Ref. 520 - K / AX - 2022 Date 20.05.2022

Geophysical Borehole Logging Report

Name of the site : Katahana, Block – Jogiya Khas

District : Siddharth Nagar

Date : 20.05.2022

Depth logged : 170.0 mbgl

Depth drilled : 175.0 mbgl – as reported

Logger use : Robertson make

Presence : Rep. of M/S Megha Engineering & Infrastructure Ltd., Hyderabad

J.E. A.K. Maurya, U.P. Jal Nigam & Mubaraq Hussain, T.P.I

Based on the interpretation of geophysical logs, following information may be deciphered, particularly with respect to salinity of the formation water.

| Sl.No. | Depth range (mbgl) | Thickness(m) | Remarks |
|--------------|--------------------|--------------|----------|
| 1 | 26.0---38.0 | 12.0 | Good all |
| 2 | 58.0---63.0 | 5.0 | |
| 3 | 70.0---74.0 | 4.0 | |
| 4 | 92.0---108.0 | 16.0 | |
| 5 | 110.0---120.0 | 10.0 | |
| 6 | 132.0---160.0 | 28.0 | |

Note. All zones are intermixed with fine bands of kankar.

Dr. R. A. Yadav

for Aqua Xplore

To
M/S Megha Engineering & Infrastructure Limited
Hyderabad

*Verified as per logs provided.
Note - Sr No 4 - may be consider as 92-99 (7m) 101-108 (7m), to avoid finer sediments.*

REGISTERED GEOLOGIST
DR. JAL NIGAM (UP) LTD.
PRAYAGRAJ



| Depth B.G.L. | Boring Chart | Strata | Executed Assembly | ASSEMBLY DETAILS |
|--------------|--------------|-------------|-------------------|--|
| | | | | 200 mm Dia housing pipe to 35.75M |
| | | | | 200 x150mm reducer from 35.75 M to 35.95 M |
| | | | | 150mm dia plain pipe from 35.95 M to 101.51 M |
| | | | | 150mm dia slotted pipe from 101.51 M to 107.57 M |
| | | | | 150mm dia plain pipe from 107.57 M to 133.07 M |
| | | | | 150mm dia slotted pipe from 133.07 M to 139.13 M |
| | | | | 150mm dia plain pipe from 139.13 M to 145.23 M |
| | | | | 150mm dia slotted pipe from M to M |
| | | | | 150mm dia plain pipe from M to M |
| | | | | total assembly- 145.23 M+AGL 0.5= 145.73M |
| | | | | ABSTRACT |
| | | | | Date of Lowering- 23.5.22 |
| | | | | LPM- 400 |
| | | | | Drilling Depth- 165 M |
| | | | | Assembly Lowered- 145.73M |
| | | | | Housing Pipe- 36.25 M |
| | | | | Plain Pipe- 97.16 M |
| | | | | Slotted Pipe- 12.12 M |
| | | | | Reducer- 0.2 M |
| | | | | LOGGING REPORT |
| | | | | Date of Logging- 20.5.22 |
| | | | | Logging Depth- 170 |
| | | | | 26-38 = 12 |
| | | | | 58-63 = 5 |
| | | | | 70-74 = 4 |
| | | | | 92-108 = 16 |
| | | | | 110-120 = 10 |
| | | | | 132-160 = 28 |
| 26.06M | | CLAY | 6.04 | |
| | | | 6.03 | |
| | | | 6.03 | |
| | | | 6.04 | |
| | | | 6.04 | |
| | | | 6.07 | |
| 38.13M | | MEDIUM SAND | | |
| | | | 35.95 | |
| | | | 6.06 | |
| | | | 6.06 | |
| | | | 6.05 | |
| 58.21M | | CLAY | | |
| | | | 6.05 | |
| | | | 6.04 | |
| 63.11M | | MEDIUM SAND | | |
| | | | 6.06 | |
| 70.51M | | CLAY | | |
| | | | 6.06 | |
| 74.27M | | MEDIUM SAND | | |
| | | | 6.08 | |
| | | | 6.05 | |
| | | | 6.05 | |
| 92.13M | | CLAY | | |
| | | | 5.0 | |
| | | | 6.06 | 101.51 |
| | | | 6.06 | |
| 108.11M | | MEDIUM SAND | | |
| | | | 6.08 | 107.57 |
| 110.27M | | CLAY | | |
| | | | 6.04 | |
| 120.31M | | MEDIUM SAND | | |
| | | | 6.08 | |
| | | | 1.21 | |
| | | | 6.09 | |
| 132.31M | | CLAY | | |
| | | | 6.06 | 133.07 |
| | | | 6.06 | |
| | | | 6.10 | 139.13 |
| | | | 6.10 | |
| 160.50M | | MEDIUM SAND | | |
| | | | 6.10 | 145.23 |
| 170M | | CLAY | | |



M. S. K.
S.P.M/E

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