

BORE WELL DEVELOPMENT CHART (EM)

SWSM/DWSM

NCC LTD. - GORAKHPUR (UP)

THE DISTRICT- **Lyongalehpur**
 OF THE BLOCK- **Lyongalehpur**
 OF THE GRAM PANCHAYAT- **Banegajaha**
 OF THE VILLAGE-

TYPE OF RIG MC- **RIC**
 SIZE OF BORE- **600 X 500 MM**
 STATIC WATER LEVEL- **-**
 J.E. Incharge _____ A.E. Incharge _____

Discharge - 2250 LPM

| DEPTH B.G.L. IN METER | BORING CHART | STRATA | EXECUTED ASSEMBLY | ASSEMBLY DETAILS |
|-----------------------|--------------|--------------------------|-------------------|--|
| 0 M | | | 300 MM | 300 mm Dia Housing Pipe A.G.L. = 0.50 m |
| 20.20 M | | CLAY | | 200 mm Dia Housing Pipe = m to 36.63 m |
| 30.50 M | | MEDIUM SAND & KANKAR | | 300/200 mm Dia Reducer 36.13 m to 36.93 m |
| 42.00 M | | SANDY CLAY | | 200 mm Dia PLAIN pipe 36.33 m to 80.68 m |
| 54.00 M | | FINE TO MEDIUM SAND | | 200 mm Dia SLOTTED pipe 80.68 m to 86.71 m |
| 66.00 M | | CLAY | | 200 mm Dia PLAIN pipe 86.71 m to 98.77 m |
| 78.00 M | | FINE TO M. SAND & KANKAR | | 200 mm Dia SLOTTED pipe 98.77 m to 101.77 m |
| 90.00 M | | SANDY CLAY | | 200 mm Dia PLAIN pipe 101.77 m to 108.79 m |
| 102.00 M | | FINE TO MEDIUM SAND | | 200 mm Dia SLOTTED pipe 108.79 m to 111.79 m |
| 114.00 M | | CLAY & KANKAR | | 200 mm Dia PLAIN pipe 111.79 m to 116.79 m |
| 126.00 M | | FINE TO MEDIUM SAND | | 200 mm Dia SLOTTED pipe 116.79 m to 125.89 m |
| 138.00 M | | SANDY CLAY & KANKAR | | 200 mm Dia PLAIN pipe 125.89 m to 138.92 m |
| 150.00 M | | FINE TO MEDIUM SAND | | 200 mm Dia SLOTTED pipe 138.92 m to 144.96 m |
| 162.00 M | | CLAY | | 200 mm Dia PLAIN pipe 144.96 m to 147.96 m |
| 174.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 186.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 198.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 210.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 222.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 234.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 246.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 258.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 270.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 282.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 294.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 306.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 318.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 330.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 342.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 354.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 366.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 378.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 390.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 402.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 414.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 426.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 438.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 450.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 462.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 474.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 486.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 498.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 510.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 522.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 534.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 546.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 558.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 570.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 582.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 594.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 606.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 618.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 630.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 642.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 654.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 666.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 678.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 690.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 702.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 714.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 726.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 738.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 750.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 762.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 774.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 786.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 798.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 810.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 822.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 834.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 846.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 858.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 870.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 882.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 894.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 906.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 918.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 930.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 942.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 954.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 966.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 978.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 990.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1002.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1014.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1026.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1038.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1050.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1062.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1074.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1086.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1098.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1110.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1122.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1134.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1146.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1158.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1170.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1182.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1194.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1206.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1218.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1230.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1242.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1254.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1266.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1278.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1290.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1302.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1314.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1326.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1338.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1350.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1362.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1374.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1386.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1398.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1410.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1422.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1434.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1446.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1458.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1470.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1482.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1494.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1506.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1518.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1530.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1542.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1554.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1566.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1578.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1590.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1602.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1614.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1626.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1638.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1650.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1662.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1674.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1686.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1698.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1710.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1722.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1734.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1746.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1758.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1770.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1782.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1794.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1806.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1818.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1830.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1842.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1854.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1866.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1878.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1890.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1902.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1914.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1926.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1938.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1950.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1962.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 1974.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 1986.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 1998.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2010.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 2022.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2034.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 2046.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2058.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 2070.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2082.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 2094.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2106.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 2118.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2130.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 2142.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2154.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 2166.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2178.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 2190.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2202.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |
| 2214.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2226.00 M | | CLAY | | mm Dia _____ pipe _____ m to _____ m |
| 2238.00 M | | FINE TO MEDIUM SAND | | mm Dia _____ pipe _____ m to _____ m |
| 2250.00 M | | SANDY CLAY & KANKAR | | mm Dia _____ pipe _____ m to _____ m |

Total Assembly = 147.96 m + A.G.L. (m) = 0.50 m = 148.46 m

ABSTRACT

1. Drilling Started- 30-09-23
2. Drilling Completed/Lowering- 08-10-23
3. Drilling Depth (m)- 160.00 M
4. Assembly Lowered (m)- 148.46 M
5. Housing Pipe (m)- 36.63 M
6. Plain Pipe (m)- 84.52 M
7. Slotted Pipe (m)- 27.11 M
8. Reducer (m)- 0.20 M

LOGGING REPORT

1. 20-30 = 10.0 M
2. 42-46 = 4.0 M
3. 50-54 = 4.0 M
4. 80-87 = 7.0 M
5. 98-102 = 4.0 M
6. 108-112 = 4.0 M
7. 116-126 = 10.0 M
8. 138-145 = 7.0 M
- 9.
- 10.



JE & AE

PM/C/PLA

EE



156

Aqua Xplore

(Groundwater Assessment & Allied Services)
243/5, New Colony Jiyamau, Hazratganj, Lucknow – 226001
Mob. 9918202546 / 9889323322, Email-aquaxploreko@gmail.com

Advisor- Dr. R. A. Yadav, ex- Manager(Groundwater), U. P. Jal Nigam

Ref. 1003 – B / AX - 2023 Date 03.10.2023

Geophysical Borehole Logging Report

Name of the site : Bansgagaha, Block- Gagaha
District : Gorakhpur
Date : 03.10.2023
Depth logged : 149.0 mbgl
Depth drilled : 165.0 mbgl- as reported
Logger used : Robertson Make
Presence : Representative of M/S NCC Limited, Gorakhpur - South

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 | 20.0–30.0 | 10.0 | Good all |
| 2 | 42.0–46.0 | 4.0 | |
| 3 | 50.0–54.0 | 4.0 | |
| 4 | 80.0–87.0 ✓ | 7.0 | |
| 5 | 98.0–102.0 ✓ | 4.0 | |
| 6 | 108.0–112.0 ✓ | 4.0 | |
| 7 | 116.0–126.0 ✓ | 10.0 | |
| 8 | 138.0–145.0 ✓ | 7.0 | |

Note. All zones are intermixed with kankar.

[Signature]

for Aqua Xplore

CC;

1. Executive Engineer, C.D. (Rural), U.P. Jal Nigam, Gorakhpur.
2. M/S NCC Limited, Gorakhpur –South, SWSM.

