



Aqua Xplore

(Groundwater Assessment & Allied Services)

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

Ref. 908 - K / AX - 2022

Date 08.09.2022

Geophysical Borehole Logging Report

Name of the site : Kalnakhor, Block - Khesaraha

District : Siddharth Nagar

Date : 08.09.2022

Depth logged : ~~160.0~~ mbgl

Depth drilled : 165.0 mbgl - as reported

Logger use : ~~Robertson~~ make

Presence : Er.A.K.Maurya, J.E., Mr. Mubaraq Hussain, TPI & Rep. of M/S
Megha Engineering & Infrastructure Ltd., Hyderabad

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	28.0-32.0	4.0	Good all
2	50.0-58.0	8.0	
3	64.0-68.0	4.0	
4	78.0-92.0	14.0	
5	100.0-108.0	8.0	
6	126.0-130.0	4.0	
7	134.0-138.0	4.0	
8	146.0-152.0	6.0	

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

Verified as per
logs provided.

for Aqua Xplore

To

M/S Megha Engineering & Infrastructure Limited
Hyderabad

ASSISTANT HYDROGEOLOGIST
CIRCLE OFFICE (E/M)
U.P. JAL NIGAM (RURAL)
PRAYAGRAJ

350 F
776
DPR

Agreement No. :-

Name of District:- SIDDHARTH NAGAR

Block Name:- KHESHRAHA

Scheme Name:- KALNAKHOR

Name of Activity :- LOWERING OF TUBE WELL ASSEMBLY.

Depth B.G.L.Meter	Boring Chart	Strata	Executed Assembly	ASSEMBLY DETAILS
				200 mm Dia housing pipe to 35.61 M
			0.50 AGL	200 x 150mm reducer from 35.61 M to 35.81 M
28.13		CLAY	6.03	150mm dia plain pipe from 35.81 M to 81.00 M
			6.02	150mm dia slotted pipe from 81.00 M to 90.04 M
32.04		MEDIUM SAND	6.02	150mm dia plain pipe from 90.04 M to 101.04 M
			6.02	150mm dia slotted pipe from 101.04 M to 107.04 M
			6.01	150mm dia plain pipe from 107.04 M to 126.54 M
			6.01	150mm dia slotted pipe from 126.54 M to 129.54 M
			35.61	
			35.81	
			6.03	
			6.03	
49.97		FINE SAND	6.03	
			6.03	
58.13		CLAY	6.03	
			6.03	
63.91		FINE SAND	6.02	
68.04		CLAY	6.02	
			3.00	
78.17		MEDIUM SAND	81.00	
			6.02	
			3.02	
92.31		CLAY	90.04	
			6.00	
99.93		MEDIUM SAND	101.04	
			6.00	
108.23		CLAY	107.04	
			6.00	
			6.00	
			6.00	
126.04		MEDIUM SAND	126.54	
130.15		CLAY	3.00	
134.05		FINE SAND	129.54	
137.91		CLAY	135.55	
146.21		FINE SAND		
152		CLAY		
160				
165				
				ASSEMBLY DETAILS
				Total Assembly- 135.55 M + AGL 0.5 = 136.05 M
				ABSTRACT
				Date of Lowering-
				LPM-
				Drilling Depth- 165 M
				Assembly Lowered- 136.05 M
				Housing Pipe- 36.11 M
				Plain Pipe- 81.70 M
				Slotted Pipe- 18.04 M
				Reducer- 0.20 M
				LOGGING REPORT
				Date of Logging-
				Logging Depth- 160 M.
				28 - 32 = 4
				50 - 58 = 8
				64 - 68 = 4
				78 - 92 = 14
				100 - 108 = 8
				126 - 130 = 4
				134 - 138 = 4
				146 - 152 = 6



TPI

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J.E.

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A.E.

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GROUND WATER INVESTIGATION CENTRE

(Ground Water Assessment & Allied Services)

9/43, Sector-9, Jankipuram Extension, Lucknow - 226031

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GSITN: 09ANAPS3037Q1ZG

Ref: TDMA/WWP/JR/032

Date: 07-04-2023

GEOPHYSICAL BOREHOLE ELECTRICAL LOGGING REPORT

Site's Location : Village – Kalnakhor, Block – Khesraha, Distt. - Siddharthnagar

Drilling Depth (m) : 175.00 mbgl as reported by Driller

Logged Depth (m) : 165.50 ~~mbgl~~

Date of Logging : 07.04.2023

Types of Log : ~~S.P., Resistivity (Normal) & Natural Gamma~~

Logger Used : Robertson Geologging.,

Bore Hole Drilled by: Megha Engineering and Infrastructure Ltd.,



Details of major aquifer formations explored from interpretation of Geophysical Logs are given below.

Sl. No.	Depth Range (m, bgl)	Thickness (m)	Quality & Types of Strata	R_{mf} & R_w
1	40 – 46	6	Good	$R_{mf} = 11.39 \Omega m$
2	52 – 58	6	Good	$R_w = 12.82 \Omega m$
3	64 – 69	5	Good, Fine Sand	
4	76 – 84	8	Good	
5	102 – 106	4	Good	
6	135 – 140	5	Good	

~~7~~ 154-160 6 Good.
Remark : Almost all zones are intermixed with fine bands of kankar.

Verified as per
logs provided

GSh
08/04/23



(A.K. Singh)
Geophysicist

Cover Agreement No. :-

Name of District:- **SIDDHARTH NAGAR**

Scheme Name:- **KALWAKHOR TW2**

Block Name:- **KHESHRAHA**

Name of Activity :- **LOWERING OF TUBEWELL**

Depth B.G.L.Meter	Boring Chart	Strata	Executed Assembly	ASSEMBLY DETAILS
			0.5M AGL	200 mm Dia housing pipe to 35.58 M
			6.00	200 x150mm reducer from 35.58 M to 35.78 M
			6.00	150mm dia plain pipe from 35.78 M to 76.80 M
			6.01	150mm dia slotted pipe from 76.80 M to 82.80 M
			6.02	150mm dia plain pipe from 82.80 M to 102.41 M
			6.02	150mm dia slotted pipe from 102.41 M to 105.41 M
			6.02	150mm dia plain pipe from 105.41 M to 135.40 M
			6.03	150mm dia slotted pipe from 135.40 M to 138.41 M
			0.2	150mm dia plain pipe from 138.41 M to 154 M
			35.58	150mm dia slotted pipe from 154 M to 160 M
			35.78	150mm dia plain pipe from 160 M to 164 M
40.12		MEDIUM SAND	6.00	150mm dia slotted pipe from M to M
46.20		CLAY	6.00	150mm dia plain pipe from M to M
52.13		MEDIUM SAND	6.00	150mm dia slotted pipe from M to M
58.22		CLAY	6.01	150mm dia plain pipe from M to M
64.17		FINE TO MEDIUM	6.01	
69.25		CLAY	5.00	
76.23		MEDIUM SAND	6.00	
84.17		CLAY	6.00	
102.19		MEDIUM SAND	3.00	
106.32		CLAY	6.00	
135.09		MEDIUM SAND	3.01	
140.10		CLAY	6.00	
154.19		MEDIUM SAND	6.00	
160.23		CLAY	4.00	
165 M			164	
			+0.5	
			164.5 M	
				Total Assembly- 164 M + AGL 0.5 = 164.05 M
				ABSTRACT
				Date of Lowering-
				LPM-
				Drilling Depth- M
				Assembly Lowered- 164.50 M
				Housing Pipe- 36.08 M
				Plain Pipe- 110.20 M
				Slotted Pipe- 18.02 M
				Reducer- 0.20 M
				LOGGING REPORT
				Date of Logging-
				Logging Depth-
				40-46 = 4
				52-58 = 6
				64-69 = 5
				76-84 = 8
				102-106 = 4
				135-140 = 5
				154-160 = 6



TPI

Akm
J.E.

सहायक अभियंता
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