

NCC
NCC Limited

M. C LTD.

STATE WATER AND SANITATION MISSION

CLIENT: JJM / SWSM / DWSM

CONSULTANT: Medhaj Techno Concepts Private Ltd.

SIEVE ANALYSIS OF PEA GRAVELS (1.6 mm to 4.8 mm)

(As per IS : 460)



Date of Testing : 12-07-23

Test report no : 01

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Lallega - Nainital - Uttarakhand.
2	Location :	Block Name- Berhoywanti
		G.P Name- Mohan-pahuniya.
3	Date of sampling :	10-07-23
4	Lab. Test no :	01
5	Sample no :	01
6	Total wt. of sample (gm) :	1000 gm

SIEVE ANALYSIS

IS Sieve Size	Wt. Retained (gm)	Cumulative wt. Retained (gm)	Cumulative % wt. Retained	% Passing	Acceptable / Not Acceptable
6.3 mm	0	0	0	100	OK
4.75 mm	50	50	5.0	95.0	OK
2.36 mm	890	940	94.0	6.0	OK
1.18 mm	54	994	99.4	0.6	OK
Pan	06				

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PMO

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STATE WATER AND SANITATION MISSION

CLIENT: JJM / SWSM / DWSM

CONSULTANT: Medhaj Techno Concepts Private Ltd.

SPECIFIC GRAVITY OF PEA GRAVELS- 1.6 mm to 4.8 mm

As per IS : 2386 (Part-3)



Date of Testing- 12-07-23

Test report no - 01

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Lalaua - Malimita - Uttaranchal,
2	Location :	NAME OF THE BLOCK - Berhauyama NAME OF THE GRAM PANCHAYAT - Mohan - Pahuniya.
3	Date of sampling :	10-07-23
4	Lab. Test no :	01
5	Sample no :	01

SPECIFIC GRAVITY TEST AT ROOM TEMPERATURE

6	Weight of the Jar, W1 (gm)=	256
7	Weight of Jar + Gravel, W2 (gm)=	465
8	Weight of Jar + Gravel + Water, W3 (gm)=	860
9	Weight of the Jar + Water, W4 (gm)=	720
10	Specific Gravity =	$\frac{W2 - W1}{(W2 - W1) - (W3 - W4)} = \frac{209}{209 - 140} = 3.03$

Note : The Specific Gravity should not be less than 2.5

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PMC

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CLIENT

NAME OF THE DISTRICT: Luzernkhur, Berhampur,
 NAME OF THE BLOCK: Berhampur,
 NAME OF THE GRAM PANCHAYAT: Nandanpur,
 NAME OF THE VILLAGE: Discharge: 400 LPM

TYPE OF RIG MC: RIC
 SIZE OF BORE: 36.16
 STATIC WATER LEVEL: -
 J.R. Incharge: A.J. Incharge

DEPTH A.G.L. IN METER	BEARING CHART	STRATA	EXCUTED ASSEMBLY	ASSEMBLY DETAILS
0.00			200	200 mm Dia Housing Pipe A.G.L. = 0.50 m
			200	150 mm Dia Housing Pipe - m to 36.16 m
		CLAY		150 mm Dia Reducer 36.16 m to 36.86 m
				150 mm Dia PUMP pipe 36.86 m to 114.22 m
				150 mm Dia SLOTTED pipe 114.22 m to 120.24 m
				150 mm Dia PUMP pipe 120.24 m to 124.54 m
30.20				150 mm Dia SLOTTED pipe 124.54 m to 127.54 m
		MEDIUM SAND.		150 mm Dia PUMP pipe 127.54 m to 132.54 m
				150 mm Dia SLOTTED pipe 132.54 m to 135.54 m
				150 mm Dia PUMP pipe 135.54 m to 143.56 m
44.50				150 mm Dia SLOTTED pipe 143.56 m to 149.58 m
		CLAY & KANKAR		150 mm Dia PUMP pipe 149.58 m to 155.60 m
72.20				
76.20		FINE SAND.		
		SANDY CLAY		
106.50				
		FINE TO MEDIUM SAND		
122.20				
124.20		CLAY & KANKAR		
		FINE TO M. SAND		
127.54				
127.54				
127.54				
132.54		SANDY CLAY		
132.54		FINE TO MEDIUM SAND.		
136.20				
136.20		CLAY.		
142.20				
142.20		FINE TO MEDIUM SAND.		
150.50				
150.50		CLAY		
170.0				

Total Assembly = 155.60 m + A.G.L. (m) = 0.50 m = 156.10 m

ABSTRACT

1. Drilling Started-
2. Drilling Completed/Lowering-
3. Drilling Depth (m) - 170.0 m
4. Assembly Lowered (m) - 156.10 m
5. Housing Pipe (m) - 36.16 m
6. Plain Pipe (m) - 101.70 m
7. Slotted Pipe (m) - 18.04 m
8. Reducer (m) - 0.20 m

LOGGING REPORT

1. 30 - 48 = 18 m
2. 72 - 76 = 4.0 m
3. 106 - 122 = 16.0 m
4. 124 - 129 = 5.0 m
5. 132 - 136 = 4.0 m
6. 142 - 150 = 8.0 m
- 7.
- 8.
- 9.
- 10.

SOUND TEST-

VERTICALITY TEST-

SKJ

Akm

Shailen

NCC LTD

JE & AE

P.M./P.L.A

E.E

167



GROUND WATER INVESTIGATION CENTRE

(Ground Water Assessment & Allied Services)

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GSITN: 09ANAPS3037Q1ZG

Ref: TDMA/WWP/JR/311

Date: 22-07-2023

GEOPHYSICAL BOREHOLE ELECTRICAL LOGGING REPORT

Site's Location : Village – Mohan Pahuriya, Block – Barhalganj,
Distt. – Gorakhpur

Drilling Depth (m) : 170.00 mbgl as reported by Driller

Logged Depth (m) : 156.00 mbgl

Date of Logging : 22.07.2023

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

Logger Used : Robertson Geologging.,

Bore Hole Drilled by : NCC 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 Strara	R _{mf} & R _w
1	30 – 48	18	Good	R _{mf} = 22.62 Ωm R _w = 23.04 Ωm
2	72 – 76	4	Good	
3	106 – 122 ✓	16	Good, Fine Sand	
4	124 – 129 ✓	5	Good	
5	132 – 136 ✓	4	Good	
6	142 – 150 ✓	8	Good	

Remark : 1. Almost all zones are intermixed with fine bands of kankar.

24/1/23
 4:20
 1970/1975

LOWERING ASSEMBLY CHART

Block
 Gram Panchayat
 OHT Village

Badhalganj
 Motor Paturiya

500 mtr
 20 x 150 mm

Logging Report -

- ① 30-48 — 18 mtr
- ② 72-76 — 4 mtr
- ③ 106-122 — 16 mtr
- ④ 124-129 — 5 mtr
- ⑤ 132-136 — 4 mtr
- ⑥ 142-150 — 8 mtr

HOLE PIPE - 36.16 mtr
 FLOW PIPE - 101.7 mtr
 SLOTTED PIPE - 18.04 mtr

	OT	AGL
29	602	
28	603	
27	602	
26	604	
25	603	
24	602	
23	602	→ 35.66
22	602	→ 35.86
	200	
21	602	
20	603	
19	602	
18	604	
17	602	
16	602	
15	603	
14	603	→ 84.07
13	604	
12	602	
11	603	
10	603	
9	603	→ 114.22
8	602	→ 120.84
7	603	
6	602	→ 124.54
5	3.0	→ 127.54
4	5.0	
3	3.0	→ 132.54
2	602	→ 135.54
1	602	→ 143.56
	2.0	
	602	→ 149.58
	602	→ 155.6
		→ 1.5

SKP

~~TPH~~ *Shail*

JAL NIGAM 1561