

**FIREWELL ASSEMBLY CHART**

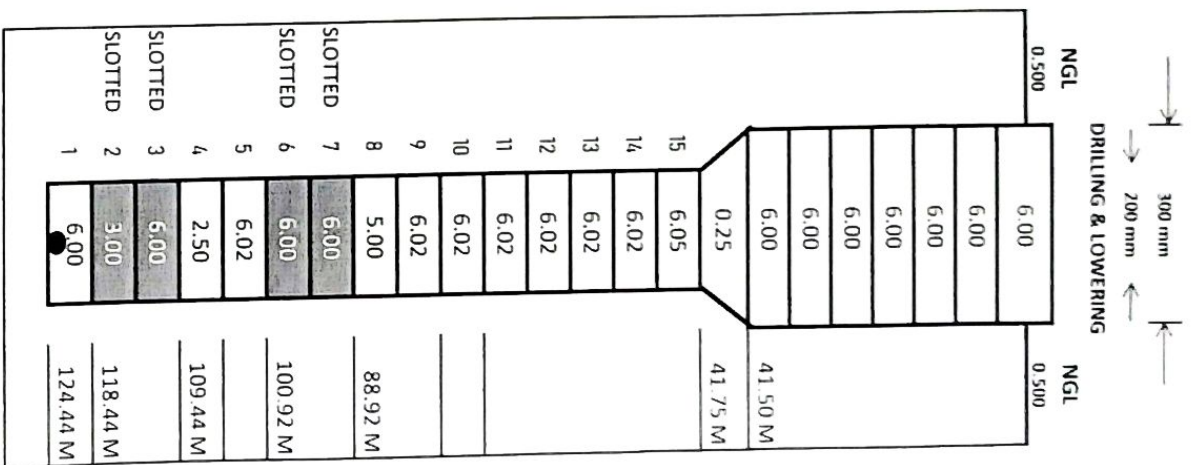
PROJECT REFERENCE NUMBER	SCHEME UNDER WHICH
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COVER WORK REFERENCE NO.	COVERED PHASE-III 2022/23/IV
SCHEME NAME	<b>SUBBINA</b>
FOYANO	SOILED PHASE-III 2022/23/IV-20060382
BLOCK	BH-SANDA
LOWERING DATE	08-10-2023

**LIST OF FIREWELL ASSEMBLY UNITS**

SER NO	DESCRIPTION	QTY. (NO)	DIAMETER
1	PLAIN PIPES	12.00	300 mm
2	PLAIN PIPES	61.69	200 mm
3	SLOTTED PIPES	21.00	200 mm
300 mm	MM DIA PLAIN PIPES		42.00 M
300x300	MM DIA REDUCER		0.25 M
200 mm	MM DIA PLAIN PIPES		61.69 M
200 mm	MM DIA SLOTTED PIPES		21.00 M
	TOTAL DEPTH		121.91 M
	AGL.		-0.50 M
	TOTAL LOWERING DEPTH		124.41 M

**LOGGING REPORT AS-**

88 M	102 M	Coarse sand
108 M	120 M	Coarse sand
123 M	127 M	Coarse sand



*Amir Javed*

*[Signature]*

M/S BLG CONSTRUCTION (TPI) (E&M U.P. JAL NIGAM RURAL MORADABAD)





# M/S E.R. TECHNOLOGIES

(Govt. Contractor of PH & Civil Works & Electrical Works)

(Specialist in: Deep Tube well, Sick Tube well, Geological and Hydro-Geological Survey, Electric Logging of Borehole, Videography of Borehole, Water Sample & Soil Testing etc.)

Ref. ....

Dated..... 06/10/2023

**REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE  
SIMBUA, BLOCK BISALPUR, DISRICT PILIBHIT, UTTAR PRADESH UNDER JAL  
JEEVAN MISSION**

**Introduction:**

The borehole at the site was drilled to a depth of 150.00 meters, and the electric logging was conducted up to 150.00-meter depth using a continuous logger on Aug 06, 2023. The purpose of this logging was to assess the various subsurface strata and properties encountered during drilling, with a focus on resistivity measurements (LON -64" and SHN-16) and self-potential (SP) data. This report provides an analysis of the interpreted data and offers recommendations for further actions under the Jal Jeevan Mission.

**LOGGING DATA**

Name of agency	Vishwaraj Environment Pvt Ltd. , Atal Power Infra
Location	Simbua
Block	Bisalpur
District	Pilibhit, U.P
Depth drilled (mbgl)	150
Depth logged (mbgl)	150
Water level (m)	05
LON -64" Resistivity (N-64)	Ohm.m (Blue)
SHN-16 Resistivity (N-16)	Ohm.m (Red)
Self-Potential (SP)	Mv (Green)

Sr. No	Depth Range (m)		Zone Thickness(m)	LON -64" N Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0 00	9 00	9.00	25	Top soil	-
2	9 00	13 00	4 00	56	Medium Coarse Sand	-
3	13 00	15 50	2 50	29	Clay	-
4	15 50	27 00	11 50	92	Coarse Sand , Gravel	-
5	27 00	30 50	3 50	29	Clay	-
6	30.50	73.00	42.50	80	Coarse Sand , Gravel	Good
7	73 00	77.50	4 50	26	Clay	-
8	77.50	83 00	5.50	40	Fine Medium Sand	-
9	83 00	88 00	5 00	29	Clay	-
10	88.00	102.00	14.00	70	Coarse Sand	Good
11	102 00	108 00	6.00	29	Clay	-
12	108.00	120.00	12.00	67	Coarse Sand	Good
13	120.00	123 00	3 00	22	Clay	-
14	123.00	127.00	4.00	69	Coarse Sand	Good
15	127 00	138 00	11 00	39	Sandy Clay	-
16	138 00	150 00	12 00	33	Clay	-

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## Recommendations:

Based on the interpreted strata data from the electric logging, the following recommendations are provided:

### 1. Screen Installation:

It is recommended to install screens against the **bold-marked strata** indicated in the interpretation above. These screens will help facilitate water inflow from the identified permeable zones.

### 2. Expected Water Quality:

The expected water quality in the zones marked as "Good" is anticipated to be favorable.

### 3. Tubewell Development:

To optimize water yield, it is advised to develop the tubewell using a high-capacity air compressor.

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Field-Plan:

Layout of Subha 105 Scheme Drift Filtered Block - K. B. Banda

TD No. 87 - 300 x 200 mm of Lowing Dst. - 08/10/23 discharge - 800 lpm

150/140

300mm Lowing pipe    200mm Plain Pipe    200mm of Filtered Pipe

- 1- 6.00
  - 2- 6.00
  - 3- 6.00
  - 4- 6.00
  - 5- 6.00
  - 6- 6.00
  - 7- 6.00
- 
- 42.00M

- 1- 6.00
  - 2- 6.15
  - 3- 6.00
  - 4- 6.00
  - 5- 6.00
  - 6- (6.00)
  - 7- 6.00
  - 8- 6.00
  - 9- 6.00
  - 10- 6.00
  - 11- 6.00
  - 12- 6.00
- 
- 72.00M

- 1- 6.00
  - 2- 6.00
  - 3- 6.00
  - 4- 6.00
- 
- 24.00M

3 mm  
200mm

Logging Report

- 100 - 102 - coarse sand - 6+6
- 120 - 120 - coarse sand - 6+3
- 120 - 120 - coarse sand - 2

Low Pipe

- 5.00M
- 1.00M

- 2.00M
- (3.00M)

Filtered Pipe

- 5.00M
- (3.00M)

- 300mm Lowing pipe - 42.00M
  - 200mm Plain pipe - 72.00M
  - 200mm Filtered pipe - 24.00M
- 
- 138.00M

