



# Jal Jeevan Mission

Har Ghar Jal

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Jal Jeevan Mission

## District Level Water Analysis Laboratory , U.P Jal Nigam (Rural), ALIGARH

BUILDINGNO 01, ADHIKSHAN ABHIYANTA KARYALAYA, NIRMAN MANDAL, U.P. JAL NIGAM, RAMGHATROAD, ALIGARH ALIGARH,UTTARPRADESH-202001 (Test Address only )

### Test report

Sample ID:

U1716871S13598537

### User Information

Name:

Kalpataru Projects International Limited

Mobile:

9098864227

Email:

ssinfra@gmail.com

Pin Code:

Full Address:

Village- Pehara Majra Kabir Pur , Gram Panchayat- Pehara Majra Kabir Pur, Block- Shitalpur, District- Etah, State- Uttar Pradesh

### Sample description

Source of Sample:

Tube well / Bore well / Well

Village:

Mahuat

Gram Panchayat:

Mahuat

Block:

Shitalpur

District:

Etah

State:

Uttar Pradesh

Address:

Remarks:

Latitude:

Longitude:

Date &amp; time of sample collection

14.07.2023 | 10:35:00 AM

Date &amp; time of sample received in lab

14.07.2023 | 04:57:00 PM

Date &amp; time of sample analysed

14.07.2023 | 08:50:00 PM

Date &amp; time of report generation

14.07.2023 | 08:50:00 PM

### Test results

Sr. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Remarks
1	Calcium (as Ca)*	mg/l	75	200	22.600	
2	Chloride (as Cl)*	mg/l	250	1000	28.000	
3	Colour*	Hazen units	5	15	1.000	
4	E. coli	CFU/100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
5	Fluoride (as F)*	mg/l	1	1.5	0.400	

Sr. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Remarks
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.010	
7	Magnesium (As Mg)*	mg/l	30	100	19.400	
8	Nitrate (as NO <sub>3</sub> )*	mg/l	45	No Relaxation	15.600	
9	Odour*	NA	Agreeable	Agreeable	0.000	
10	pH*	NA	6.5-8.5	No Relaxation	7.460	
11	Sulphate (as SO <sub>4</sub> )*	mg/l	200	400	5.400	
12	Taste*	NA	Agreeable	Agreeable	0.000	
13	TDS*	mg/l	500	2000	368.000	
14	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	158.000	
15	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.000	
16	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
17	Total Hardness (As CaCO <sub>3</sub> )*	mg/l	200	600	136.000	
18	Turbidity*	NTU	1	5	0.680	

**Note:**

- 1)\*indicates parameters that are NABL accredited.
- 2)This test results related to the sample tested above
- 3)The report shall not to be reproduced in full without approval of authority
- 4)This is the end of the report

**Authorised signatory**  
Shailender rajawat (Test Lab Incharge)

**Jal Jeevan Mission aims at potable tap water supply to every home**

Let's join hands to ensure drinking water is potable. It helps in preventing water borne diseases and improve public health.

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**PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH**

**REQUEST FOR INSPECTION (RFI)**

Format No : JMC/232221F/00001  
 RFI no: JJM/ETAH/JMC/  
 Contractor Name: JMC Projects (I) Ltd.  
 LOA No- 3563/W-25 (Allgarh)/2021-22 dated 07.01.2022  
 District: ETAH Block: Shetarpur Location of Work: Mahavath  
 Date: 24/03/2023 Scheme: Mahavath

Following civil items are ready for inspection :  
 SBC  
 Tube Well  
 Excavation  
 Plaster Work  
 M.S. Wicket Gate/ Window  
 Painting  
 PCC  
 RCC  
 Stand Post  
 Interlocking Tile  
 Others

Following Mechanical, Electrical, C&I items are ready for inspection :  
 Instrumentation  
 Welding  
 Stabilizer  
 EMF Meter  
 Starter  
 Earthing cable  
 Lighting  
 Pump Set  
 Valves  
 Panel  
 Sioar  
 Chain Pulley  
 Level / Pressure Transmitter  
 Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( )  
 DG Set  
 Chlorinating Plant  
 RTU  
 Others

Drilling work  
 1) Depth of bore - 110m  
 2) Size of bore - 500mm  
 3) Type of m/c - Rig m/c  
 4) Elevel logs -  
 5) Discharge per DRA - 410 LPH

On Date : 25/03/2023 Time : 10:00 Am  
 Submitted By Podduman Date 24/03/2023 Time 3:00 Pm Sign Podduman  
 TPI (Aarvee)  
 Recieved By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Sign \_\_\_\_\_  
 Comments : Drilling depth = 110 mtr  
Logging depth = 101 mtr

NAME :  APPROVED  NAME :  
 DESIGN :  APPROVED AS NOTED  DESIGN :  
 SIGN:  REJECTED  SIGN:

CIVIL Department  
 E&M, I/C Department

APPROVED  APPROVED AS NOTED  REJECTED   
 APPROVED  APPROVED AS NOTED  REJECTED

NAME :  APPROVED NAME :  APPROVED  
 DESIGN :  APPROVED AS DESIGN :  APPROVED AS  
 SIGN:  REJECTED SIGN:  REJECTED

Civil Department  
 Comments: Mud pit area is not provided hard barrication with caution tape. Total Assembly = 102.05mtr  
 2000 Plain pipe = 81.01 mtr  
 Slotted pipe = 21.04 mtr  
 E&M, I/C Department

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Sign: \_\_\_\_\_  
 TPI (Aarvee)  
 Submitted By: Rachmanan Date: 03/04/2023 Time: 8:00 pm Sign: Rachmanan  
 On Date: 04/04/2023 Time: 10:15 am

Work Description :

<input type="checkbox"/> Earthing cable	<input type="checkbox"/> Starter	<input type="checkbox"/> Piping-DI ( HDPE ( ) MS ( ) MDPE ( ) )	<input type="checkbox"/> Others
<input type="checkbox"/> Lighting	<input type="checkbox"/> EMF Meter	<input type="checkbox"/> Level / Pressure Transmitter	<input type="checkbox"/> RTU
<input type="checkbox"/> Pump Set	<input type="checkbox"/> Stabilizer	<input type="checkbox"/> Panel	<input type="checkbox"/> Chlorinating Plant
<input type="checkbox"/> Instrumentation	<input type="checkbox"/> Welding	<input type="checkbox"/> Valves	<input type="checkbox"/> DG Set
<input type="checkbox"/> Chain Pulley	<input type="checkbox"/> Sloop	<input type="checkbox"/> Date :	

Following Mechanical, Electrical, C&I items are ready for inspection :

<input type="checkbox"/> HDPE Pipeline	<input type="checkbox"/> Others
<input type="checkbox"/> Rising Main	<input type="checkbox"/> Backfilling
<input type="checkbox"/> Shuttering	<input type="checkbox"/> Brick Work
<input type="checkbox"/> Tube Well	<input checked="" type="checkbox"/> Excavation
<input type="checkbox"/> PCC	<input type="checkbox"/> Painting
<input type="checkbox"/> RCC	<input type="checkbox"/> Stand Post
<input type="checkbox"/> Interlocking Tile	<input type="checkbox"/> M.S. Wicket Gate/ Window

Following civil items are ready for inspection :

Tube well work :-  
 (i) Assembly during work -  
 (ii) For graded work -  
 Assembly size & comm  
 Assembly depth (01.500)

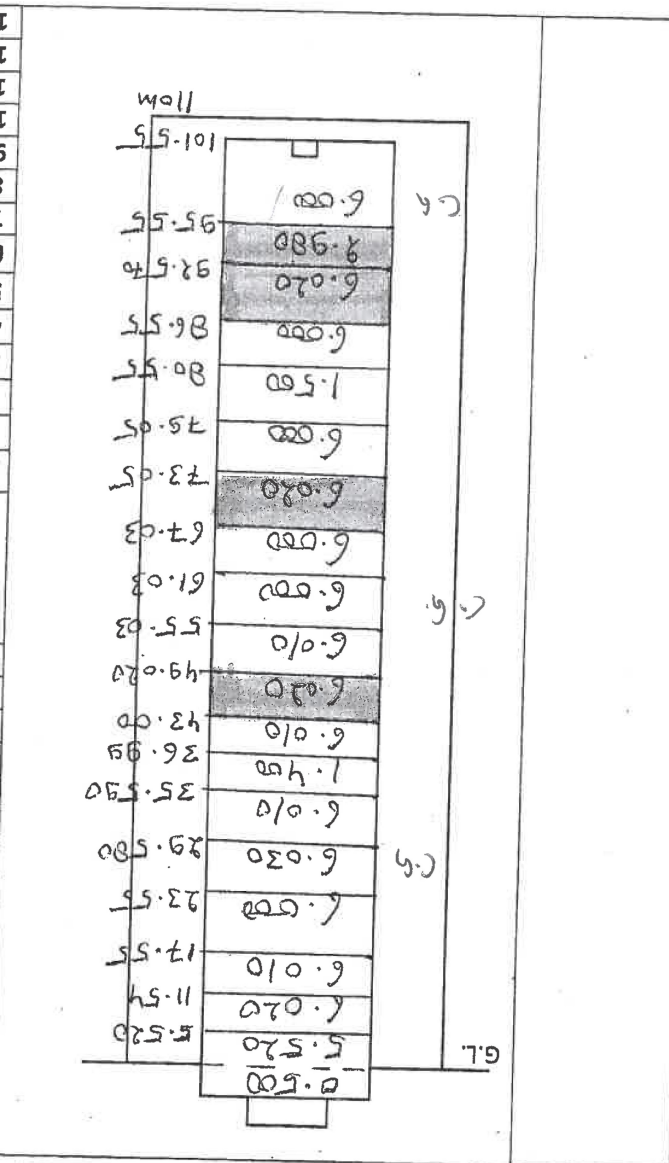
District: Palani Block: Sheelapur Scheme: Mahat  
 Location of Work  
 Contractor Name: JMC Projects (I) Ltd. LOA No- 3563/W-25 (Allgarh)/2021-22 dated 07.01.2022  
 Format No : JMC/232221F/00001 RFI no: JUM/ETAH/JMC/ Date: 03/04/2023  
**REQUEST FOR INSPECTION (RFI)**

KPTL  
Kalyan Mada

Lowering work executed as per assembly chart  
TPI

CLIENT (UPJN)

SL.	DPR Details -	Lowering Date - 07/04/2023	Water Discharge in LPM - 410 LPM	Bore well Drilling dia - 500mm	Bore well Drilling depth - 110m
3.					
LOGGING REPORT					
Depth - 101	Date - 30/03/2023	Remarks	Thickness	Depth Range	SL.
1			6m	43-49	
2			10m	65-75	
3			14m	86-100	
4					
5					
6					
7					
8					
9					
10					
11					
<p>Assembly Details</p> <p>Total Assembly = 102.05m</p>					
Proposed Assembly for Lowering					
1.	300mm dia MS Plain Pipe				
2.	200mm dia MS Plain Pipe	81.01m			
3.	200mm dia MS Slotted Pipe	21:040m			
4.	200mm dia LCG Pipe				
5.	300/200 mm dia Reducer				
6.	MS Ball Plug	01			
7.	MS Ring 300mm				
8.	MS Ring 200mm - 18 Nos				
9.	MSSI Clamp	01			
10.	Centre Guide - 01+2=3				
11.	TW Assembly Support - 01				
12.	MS Well Cap	01			
13.	Pea Gravel Packing - 18.39 Cum				



DEPTH OF STARTA	PROPOSED ASSEMBLY DETAILS	Block - Sheetal/PU	GP - Mchuf

QUALITY MANAGEMENT SYSTEM  
Format No : KPTL/232221F/00023



adarvee associates  
architects engineers & consultants pvt. ltd.

KALPA-TARU  
KALPA-TARU

101.50 mtr	B01
102.00 mtr	A02

800 mm dia plain pipe → 81.00 mtr  
 800 mm dia slotted pipe → 21.00 mtr

101.50	6.00
95.50	6.00
86.50	6.00
	1.50
	6.00
73.00	6.00
67.00	6.00
	6.00
	6.00
49.00	6.00
43.00	6.00
	1.50
	6.00
	6.00
	6.00
	6.00
	6.00
0.50	6.00

G.P → Mahuet, Block-Sheetalpur, Etah  
 "Required" → 450 LPM

86-100 → 14 mtr  
 65-75 → 10 mtr  
 43-49 → 06 mtr

84  
 84  
 100 mtr

# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- MAHUAT, BLOCK- SHEETALPUR, DISTT- ETAH

UNDER

JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth, and Logged depth 101 mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Etah. On the request of M/s Kalpataru Power Transmission limited, Etah, a Geophysical well Logging in the above bore hole using IGIS Well Logger on 30.Mar.2023. Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 14.83 Ohms.

Drilling Water Resistivity = 15.46 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 18	8	Medium sand	Medium
4.	18 - 22	4	Clay kankar	
5.	22 - 30	8	Sand & kankar	Medium
6.	30 - 32	2	Clay kankar	
7.	32 - 39	7	Fine to Medium sand	Medium
8.	39 - 43	4	Clay kankar	
9.	43 - 49*	6	Medium sand	Medium
10.	49 - 65	16	Clay kankar	
11.	65 - 75	10	Sand & kankar	Medium
12.	75 - 86	11	Clay kankar	
13.	86 - 100*	14	Medium sand	Medium
14.	100 - 101	1	Clay kankar	

