

GEOPHYSICAL DIGITAL LOGGING REPORT

SITE:	LODHAUNI	DATE OF LOGGING:	20.08.2023
BLOCK:	MAHASI	DRILLING DEPTH:	335.00 M
STATE:	UTTAR PRADESH	LOGGING DEPTH:	330.62M
ENGG:	ASHOK KUMAR	LOGGING COMPANY:	Mining Associates Pvt. Ltd.
Rm	0.987ohm\m	Rw	0.865ohm\m
DISTRIC	BAHRAICH		

AQUIFER:-

The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones.

CLAY:-

The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

NOTE:- These values are only indicative. The thin clay or sand layer does not reveal its actual resistivity value

Sl. No.	Depth		Thickness (m)	Inferred lithology	Remark(Quality of Aquifer Water)	
	From (m)	To (m)				
1	0	8	8	Top Soil		
2	8	21	13	Coares to medium grain sand	Good	
3	21	31	10	Sandyclay		
4	31	53.5	22.5	Medium to fine grain sand	Good	
5	53.5	61.5	8	Clay with sand		
6	61.5	78	16.5	Medium grain sand with kankar	Good	
7	78	86.5	8.5	Medium to fine grain sand&kankar		
8	86.5	104	17.5	Medium grain sand with kankar		
9	104	114	10	Medium to fine grain sand&kankar		
10	114	133	19	Coares to medium grain sand&kankar		
11	133	146.5	13.5	Medium grain sand		
12	146.5	154	7.5	Medium to fine grain sand		
13	154	191	37	Medium grain sand		
14	191	203	12	Medium to fine grain sand		
15	203	214	11	Coares to medium grain sand		
16	214	229.5	15.5	Medium to fine grain sand&kankar		
17	229.5	246	16.5	Sandyclay		
18	246	249.5	3.5	Medium grain sand		Good
19	249.5	255	5.5	Clay with sand		
20	255	291	36	Coares to medium grain sand&kankar	Good	
21	291	300	9	Clay		
22	300	318	18	Medium grain sand with kankar	Good	
23	318	326.5	8.5	Clay with sand		
24	326.5	329	2.5	Medium grain sand	Good	

Verified as per logs provided.

For Mining Associates Pvt. Ltd.

Ashok Kumar
Geophysicist

cc;

- Executive Engineer, C.D. (Rural), U.P. Jal Nigam, Gonda
- M/S Vishwanath Projects Limited, Bahraich

GSh

Seen

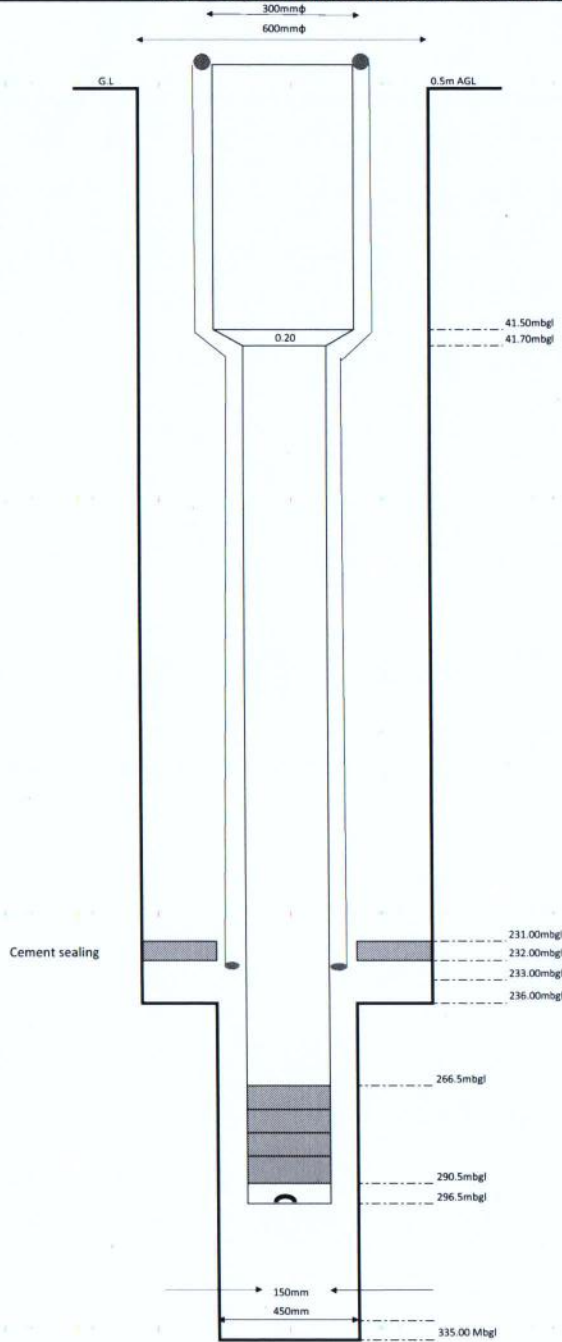
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GA INFRA- VISHWANATH PROJECTS LIMITED

PROPOSED STRATA CHART & TUBEWELL ASSEMBLY OF LADHAUNI W/S SCHEME, BLOCK -MAHASI , DISTRICT -BAHRAICH



1	Bore Size	600 X 450 mm
2	Assembly Size	300 X 150 mm
3	Drilling Depth	335.00 Mbgl
4	Logging Depth	330.62Mbgl
5	Date of Logging	20.08.2023
6	Required Discharge	640 LPM/45m

LOGGING REPORT-

Sl. No.	Depth Range(mbgl)		Inferred Lithology	Thickness(m)	Remark
	From (m)	To (M)			
1	0	8	TOP SOIL	8.0	
2	8	21	COARES TO MEDIUM GRAIN SAND	13.0	GOOD
3	21	31	SANDYCLAY	10.0	
4	31	53.5	MEDIUM TO FINE GRAIN SAND	22.5	GOOD
5	53.5	61.5	CLAY WITH SAND	8.0	
6	61.5	78	MEDIUM GRAIN SAND WITH KANKAR	16.5	
7	78	86.5	MEDIUM TO FINE GRAIN SAND & KANKAR	8.5	
8	86.5	104	MEDIUM GRAIN SAND WITH KANKAR	17.5	
9	104	114	MEDIUM TO FINE GRAIN SAND & KANKAR	10.0	
10	114	133	COARES TO DEMIUM GRAIN SAND & KANKAR	19.0	
11	133	146.5	MEDIUM GRAIN SAND	13.5	GOOD
12	146.5	154	MEDIUM TO FINE GRAIN SAND	7.5	
13	154	191	MEDIUM GRAIN SAND	37.0	
14	191	203	MEDIUM TO FINE GRAIN SAND	12.0	
15	203	214	COARES TO MEDIUM TO GRAIN SAND	11.0	
16	214	229.5	MEDIUM TO FINE GRAIN SAND & KANKAR	15.5	
17	229.5	246	SANDYCLAY	16.5	
18	246	249.5	MEDIUM GRAIN SAND	3.5	GOOD
19	249.5	255	CLAY WITH SAND	5.5	
20	255	291	COARES TO MEDIUM GRAIN SAND & KANKAR	36.0	GOOD
21	291	300	CLAY	9.0	
22	300	318	MEDIUM GRAIN SAND WITH KANKAR	18.0	GOOD
23	318	326.5	CLAY WITH SAND	8.5	
24	326.5	329	MEDIUM GRAIN SAND	2.5	GOOD

Note:-

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

Sl. No.	Descriptions	Length(m)	Remarks
1	300mmφ Housing Pipe	42.00	
2	150mmφ Plain Pipe	231.00	
3	150mm Slotted Pipe	24.00	
Total Assembly		297.00	

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GA INFRA- VISHWANATH P. LTD.

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 (JE, UPJN(RURAL) E&M
 GONDA)

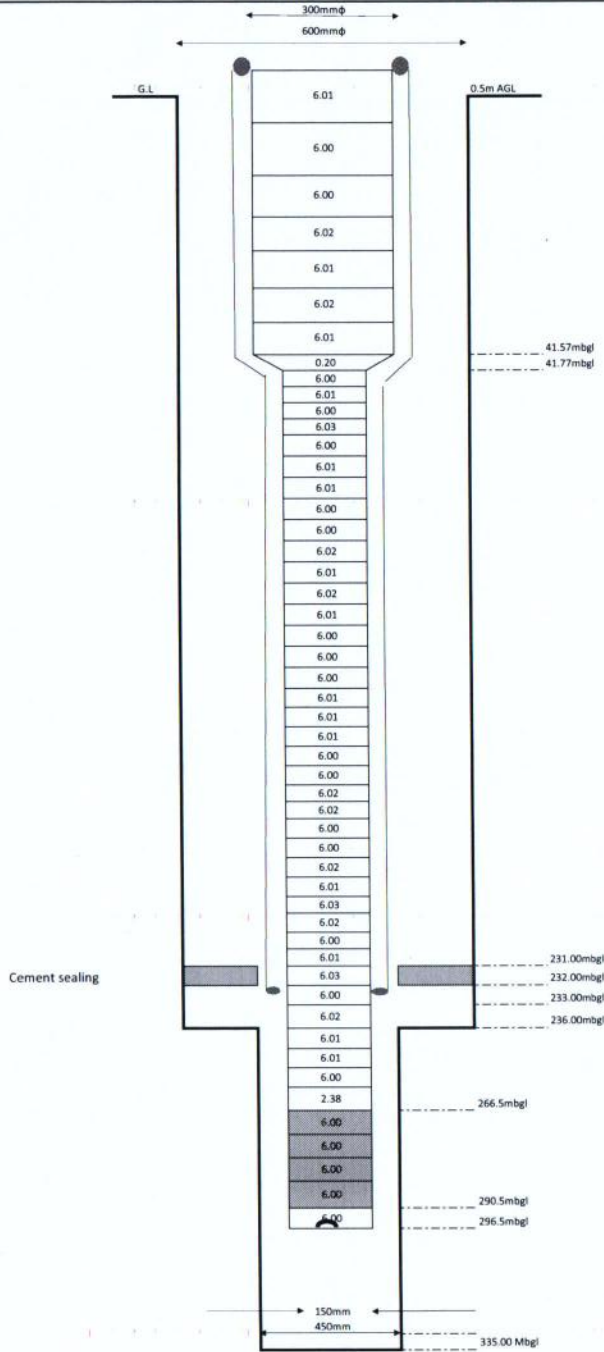
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 GONDA)

(EE, UPJN(RURAL) E&M
 GONDA)



GA INFRA- VISHWANATH PROJECTS LIMITED

ACTUAL STRATA CHART & TUBEWELL ASSEMBLY OF LADHAUNI W/S SCHEME, BLOCK -MAHASI , DISTRICT- BAHRAICH



1	Bore Size	600 X 450 mm
2	Assembly Size	300 X 150 mm
3	Drilling Depth	335.00 Mbg
4	Logging Depth	330.62Mbg
5	Date of Logging	20.08.2023
6	Required Discharge	640 LPM/45m
7	Date of Lowering	22.08.2023

LOGGING REPORT-

Sl. No.	Depth Range(mbg)		Inferred Lithology	Thickness(m)	Remark
	From (m)	To (M)			
1	0	8	TOP SOIL	8.0	
2	8	21	COARES TO MEDIUM GRAIN SAND	13.0	GOOD
3	21	31	SANDYCLAY	10.0	
4	31	53.5	MEDIUM TO FINE GRAIN SAND	22.5	GOOD
5	53.5	61.5	CLAY WITH SAND	8.0	
6	61.5	78	MEDIUM GRAIN SAND WITH KANKAR	16.5	
7	78	86.5	MEDIUM TO FINE GRAIN SAND & KANKAR	8.5	
8	86.5	104	MEDIUM GRAIN SAND WITH KANKAR	17.5	
9	104	114	MEDIUM TO FINE GRAIN SAND & KANKAR	10.0	
10	114	133	COARES TO DEMIUM GRAIN SAND & KANKAR	19.0	
11	133	146.5	MEDIUM GRAIN SAND	13.5	GOOD
12	146.5	154	MEDIUM TO FINE GRAIN SAND	7.5	
13	154	191	MEDIUM GRAIN SAND	37.0	
14	191	203	MEDIUM TO FINE GRAIN SAND	12.0	
15	203	214	COARES TO MEDIUM TO GRAIN SAND	11.0	
16	214	229.5	MEDIUM TO FINE GRAIN SAND & KANKAR	15.5	
17	229.5	246	SANDYCLAY	16.5	
18	246	249.5	MEDIUM GRAIN SAND	3.5	GOOD
19	249.5	255	CLAY WITH SAND	5.5	
20	255	291	COARES TO MEDIUM GRAIN SAND & KANKAR	36.0	GOOD
21	291	300	CLAY	9.0	
22	300	318	MEDIUM GRAIN SAND WITH KANKAR	18.0	GOOD
23	318	326.5	CLAY WITH SAND	8.5	
24	326.5	329	MEDIUM GRAIN SAND	2.5	GOOD

Note:-

- 1 Almost all

Sl. No.	Descriptions	Length(m)	Remarks
1	300mmφ Housing Pipe	42.07	
2	150mmφ Plain Pipe	230.73	
3	150mm Slotted Pipe	24.00	
4	300mmX150mm Reducer	0.20	
Total Assembly		297.00	
Less: AGL		0.50	
TOTAL BGL		296.50	



GA INFRA- VISHWANATH P. LTD.

[Signature]
 (JE, UPJN(RURAL) E&M
 GONDA) ENGINEER

[Signature]
 (AE, UPJN(RURAL) E&M
 GONDA) ASSISTANT ENGINEER
 DIVISION OFFICE (E/M)

(EE, UPJN(RURAL) E&M
 GONDA)

OFFICE IN CHARGE, JAL NIGAM RURAL GONDA



GA INFRA- VISHWANATH PROJECTS LIMITED

TEST REPORT OF DEVELOPMENT OF TUBEWELL BY 600 PSI AIR COMPRESSOR UNDER J.J.M PROGRAMME

1. G.P NAME - LADHAUNI
2. BLOCK- MAHASI
3. DATE OF TESTING - 30-08-2023
4. T.W SIZE - 300X150 MM
5. S.W.L- 5.18 MTR
6. AIR LINE LOWERED - 287 MTR
7. DISCHARGE MEASURED BY- M.S 90° V-NOTCH TANK
8. DEPTH OF TUBEWELL- 296.50MTR
9. REQUIRED DICHARGE - 640 Lpm

SR.NO	DEPTH OF AIR LINE LOWERED		DISCHARGE WATER HEAD 90° V-NOTCH TANK		STARTING PRESSURE IN KGF/CM ²	RUNNING PRESSURE IN KGF/CM ²	DEPRESSION		SAND CONTENT IN PPM					REMARK
	IN MTR	IN MM	IN MM	IN LPM			IN KGF/CM ²	MTR	STARTING	5 MIN	10 MIN	15 MIN	20 MIN	
1	287	215	215	1808	28.5	27.5	1.0	10	4,800	2,700	1,700	1,200	800	

NOTE: RECOMMENDED FOR DEVELOPMENT OF T.W BY O.P UNIT.

TEST CONDUCTED IN PRESENCE OF BY.



[Signature]
J.J.M PPI

Assistant Engineer
DIVISION OFFICE (E/M)
U.P. JAL NIGAM RURAL GONDA

[Signature]

Assistant Engineer
DIVISION OFFICE (E/M)
U.P. JAL NIGAM RURAL GONDA

Executive Engineer

Divisional office U.P Jal Nigam (Rural) Gonda. U.P-271001.



GA INFRA- VISHWANATH PROJECTS LIMITED



YIELD TEST REPORT OF DEVELOPMENT OF TUBEWELL BY O.P UNIT UNDER J.J.M PROGRAMME

- 1.G.P NAME - LADHAUNI
- 2.BLOCK - MAHASI
- 3.DATE OF TESTING - 08-11-2023
- 4.T.W SIZE - 300 X 150MM
- 5. S.W.L - 5.18 MTR
- 6. COLUMN PIPE LOWERED - 24 MTR
- 7. SIZE OF COLUMN PIPE - 100 MM
- 8. ORIFICE SIZE - 6"X4"
- 9. CAPACITY OF O.P UNIT- 1 Cusec
- 10. REQUIRED DICHARGE - 640Lpm

SR.NO	DISCHARGE THROUGH ORIFICE SIZE		R.W.L IN Mtr	DEPRESSION IN Mtr	SAND CONTENT IN PPM					REMARK
	IN INCH	IN LPM			STARTING	5 MIN	10 MIN	15 MIN	20 MIN	
1	35	1419	9.43	4.25	350	150	50	Tr	CL	
2	20	1078	8.4	3.22	150	50	Tr	CL	CL	
3	8	700	7.34	2.16	50	Tr	CL	CL	CL	

NOTE: Recommended Discharge 640 Lpm at 2.16 mtr depression pump should be run atleast 10 min in By pass then after taken in line.

TEST CONDUCTED IN PRESENCE OF BY



[Signature]
TPJ

[Signature]
Junior Engineer
DIVISION OFFICE (E/M)
U.P. JAL NIGAM RURAL GONDA

[Signature]
Assistant Engineer
DIVISION OFFICE (E/M)
U.P. JAL NIGAM RURAL GONDA

Executive Engineer

Logsheet of OP Unit

Date	Time of start	Time of close	During Hours	Height of orifice Pipe in inches	Discharge in LMP	S.W.L. in mtr	R.W.L. in mtr	Depressi on in mtr	Sand Contents in P.P.M							Signature of O.P Unit Operator	
									Starting	5min	10min	15min	20min	25min	30min		
28-10-2023	7:30 AM	10:40 PM	5:10														राहुल
11	1:30 PM	4:35 PM	4:05														राहुल
11	5:00 PM	7:15 PM	2:15														राहुल
29/10/23	7:00 AM	1:55 PM	6:55														राहुल
"	2:30 PM	8:40 PM	6:10														राहुल
30-10-2023	7:00 AM	10:55 AM	3:55														राहुल
11	10:25 AM	1:20 PM	0:55														राहुल
01-11-2023	8:00 AM	12:55 PM	4:55														राहुल
11	1:30 PM	4:40 PM	3:10														राहुल
11	5:15 PM	8:35 PM	3:20														राहुल
02-11-2023	7:30 AM	11:50 AM	4:20														राहुल
11	10:15 PM	4:40 PM	4:25														राहुल
11	5:20 PM	7:55 PM	2:35														राहुल
03-11-2023	7:00 AM	12:40 PM	4:40														राहुल
11	1:15 PM	5:50 PM	4:35														राहुल
04-11-2023	6:20 PM	8:55 PM	2:35														राहुल
05-11-2023	8:00 AM	1:40 PM	5:40														राहुल
05-11-2023	2:00 PM	6:50 PM	4:50														राहुल
06-11-2023	7:00 AM	1:40 PM	6:40														राहुल
07-11-2023	2:00 PM	5:40 PM	3:40														राहुल
11	6:15 PM	8:50 PM	2:35														राहुल
08-11-23	7:00 AM	1:50 PM	6:50														राहुल
08-11-23	2:30 PM	5:55 PM	3:25														राहुल
	total	hours	95:40														



95.50 hrs

San

Reen

JUNIOR ENGINEER
DIVISION OFFICE (E/M)
U.P. JAL NIGAM RURAL GONDA

ASSISTANT ENGINEER
DIVISION OFFICE (E/M)
U.P. JAL NIGAM RURAL GONDA



Jal Jeevan Mission

Har Ghar Jal



State Level Water Analysis Laboratory , U.P Jal Nigam (Rural), Lucknow

6 Rana pratap Marg Lucknow (Test Address only)

Test report

Sample ID: U1683852516389776

User Information

Name: Vishwanath Projects Limited shankar Mobile: 7799887237

Email: pc-jjm@vpindia.com Pin Code:

Full Address: Village- Shahpur Jot Yusuph , Gram Panchayat- Shahpur Jot Yusuf, Block- Chitaura, District- Bahraich, State- Uttar Pradesh

Sample description

Source of Sample: Tube well / Bore well / Well Village: Lodhauni

Gram Panchayat: Lodhauni Block: Mahasi

District: Bahraich State: Uttar Pradesh

Address: Remarks:

Latitude: 27.510225 Longitude: 81.378607

Date & time of sample collection

09.11.2023 | 04:00:00 PM

Date & time of sample received in lab

30.10.2023 | 04:28:00 PM

Date & time of sample analysed

17.11.2023 | 12:02:00 PM

Date & time of report generation

05.12.2023 | 02:28:56 PM

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SW

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	Aluminum (As Al)	mg/l	0.03	0.2	0.013	
2	Barium (as Ba)	mg/l	0.7	No Relaxation	0.216	
3	Boron (as B)	mg/l	0.5	1	0.258	
4	Cadmium (As Cd)	mg/l	0.003	No Relaxation	0.000	
5	Calcium (as Ca)	mg/l	75	200	20.410	
6	Chloride (as Cl)*	mg/l	250	1000	379.880	
7	Copper (As Cu)	mg/l	0.05	1.5	0.002	
8	Fluoride (as F)*	mg/l	1	1.5	0.320	
9	Free residual Chlorine	mg/l	0.2	1	0.000	
10	Iron (As Fe)*	mg/l	1	No Relaxation	0.050	
11	Lead (as Pb)	mg/l	0.01	No Relaxation	0.000	
12	Magnesium (As Mg)	mg/l	30	100	60.480	
13	Manganese (As Mn)	mg/l	0.1	0.3	0.021	
14	Nickel (As Ni)	mg/l	0.02	No Relaxation	0.001	
15	Nitrate (as NO ₃)*	mg/l	45	No Relaxation	1.000	
16	pH*	NA	6.5-8.5	No Relaxation	7.900	
17	Silver (as Ag)	mg/l	0.1	No Relaxation	0.000	
18	Sulphate (as SO ₄)*	mg/l	200	400	33.330	
19	TDS*	mg/l	500	2000	752.000	
20	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	255.000	
21	Total Arsenic (As As)*	mg/l	0.01	No Relaxation	0.000	
22	Total Chromium (As Cr)	mg/l	0.05	No Relaxation	0.000	
23	Total Hardness (As CaCO ₃)*	mg/l	200	600	50.000	
24	Turbidity*	NTU	1	5	4.790	
25	Zinc (As Zn)	mg/l	5	15	0.026	

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

Seen
 JUNIOR ENGINEER
 DIVISION OFFICE (E/M)
 U.P. JAL NIGAM RURAL GONDA

Seen
 ASSISTANT ENGINEER
 DIVISION OFFICE (E/M)
 U.P. JAL NIGAM RURAL GONDA

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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REQUEST FOR INSPECTION AND APPROVAL



Project	Jal Jeevan Mission Water Project, Bahraich (UP)	
Client	State Water & Sanitation Mission , Uttar Pradesh	
Consultant /TPA	Ceinsys Tech LTD.	
EPC Contractor	Ga Infra - VPL (JV)	
RFI No	VPL/JJM/BAHRAICH/00	
RFI Start Date and Time	18-08-2023	
Location:	Ladhauri	Block: Mahasi
For Civil /Works :	E and M Work	
Drawing No.		

Description of Work:

Tubewell drilling work start

RFI Raised By	Asad ullah		
Signature	Asadullah		
Date	02-08-23		
Approved	Rejected	Not Ready	

Department	M/s GA INFRA -VPL(JV)	TPI (M/s Ceinsys Tech LTD)	Client (UP Jal Nigam)
Comments		Drilling work completed and found OK	
Signature			
Date			



REQUEST FOR INSPECTION AND APPROVAL



Project	Jal Jeevan Mission Water Project, Bahraich (UP)		
Client	State Water & Sanitation Mission , Uttar Pradesh		
Consultant /TPA	Ceinsys Tech LTD.		
EPC Contractor	Ga Infra - VPL (JV)		
RFI No	VPL/JJM/BAHRAICH/00		
RFI Start Date and Time	20-08-23		
Location:	Lodhauni	Block:	Mahasi
For Civil /Works :	E and M Work		
Drawing No.			
Description of Work:	Tubewell Electrolagging work.		
RFI Raised By	Asad ulloh		
Signature	Asadullah		
Date	04-08-23		
Approved	Rejected	Not Ready	
Department	M/s GA INFRA -VPL(JV)	TPI (M/s Ceinsys Tech LTD)	Client (UP Jal Nigam)
Comments		Work done satisfactory	
Signature			
Date			



REQUEST FOR INSPECTION AND APPROVAL



Project	Jal Jeevan Mission Water Project, Bahraich (UP)		
Client	State Water & Sanitation Mission , Uttar Pradesh		
Consultant /TPA	Ceinsys Tech LTD.		
EPC Contractor	Ga Infra - VPL (JV)		
RFI No	VPL/JJM/BAHRAICH/00		
RFI Start Date and Time	22-08-2023		
Location:	Ladhaumi	Block:	Mahasi
For Civil /Works :	E and M Work		
Drawing No.			

Description of Work:

Tubewell Assymblly lowering work

RFI Raised By	Asad ullah		
Signature	Asadullah		
Date	06-08-23		
Approved	Rejected	Not Ready	

Department	M/s GA INFRA -VPL(JV)	TPI (M/s Ceinsys Tech LTD)	Client (UP Jal Nigam)
Comments		found ok	
Signature			
Date			



REQUEST FOR INSPECTION AND APPROVAL



Project	Jal Jeevan Mission Water Project, Bahraich (UP)		
Client	State Water & Sanitation Mission , Uttar Pradesh		
Consultant /TPA	Ceinsys Tech LTD.		
EPC Contractor	Ga Infra - VPL (JV)		
RFI No	VPL/JJM/BAHRAICH/00		
RFI Start Date and Time	30.08-2023		
Location:	Ladhauni	Block:	Mohari
For Civil /Works :	E and M work		
Drawing No.			
Description of Work:	Air Compressor Testing work.		
RFI Raised By	Asadullah		
Signature	Asadullah		
Date	27-08-23		
Approved	Rejected	Not Ready	
Department	M/s GA INFRA -VPL(JV)	TPI (M/s Ceinsys Tech LTD)	Client (UP Jal Nigam)
Comments		Log book not maintain properly	
Signature			
Date			



REQUEST FOR INSPECTION AND APPROVAL



Project	Jal Jeevan Mission Water Project, Bahraich (UP)		
Client	State Water & Sanitation Mission , Uttar Pradesh		
Consultant /TPA	Ceinsys Tech LTD.		
EPC Contractor	Ga Infra - VPL (JV)		
RFI No	VPL/JJM/BAHRAICH/00		
RFI Start Date and Time	08-11-23		
Location:	Ladhauni	Block:	Mahasi
For Civil /Works :	E & M Work		
Drawing No.			
Description of Work:	OP Unit Testing work.		
RFI Raised By	Asadullah		
Signature	Asadullah		
Date	07-11-23		
Approved	Rejected	Not Ready	
Department	M/s GA INFRA -VPL(JV)	TPI (M/s Ceinsys Tech LTD)	Client (UP Jal Nigam)
Comments		Log book maintain properly	
Signature			
Date			