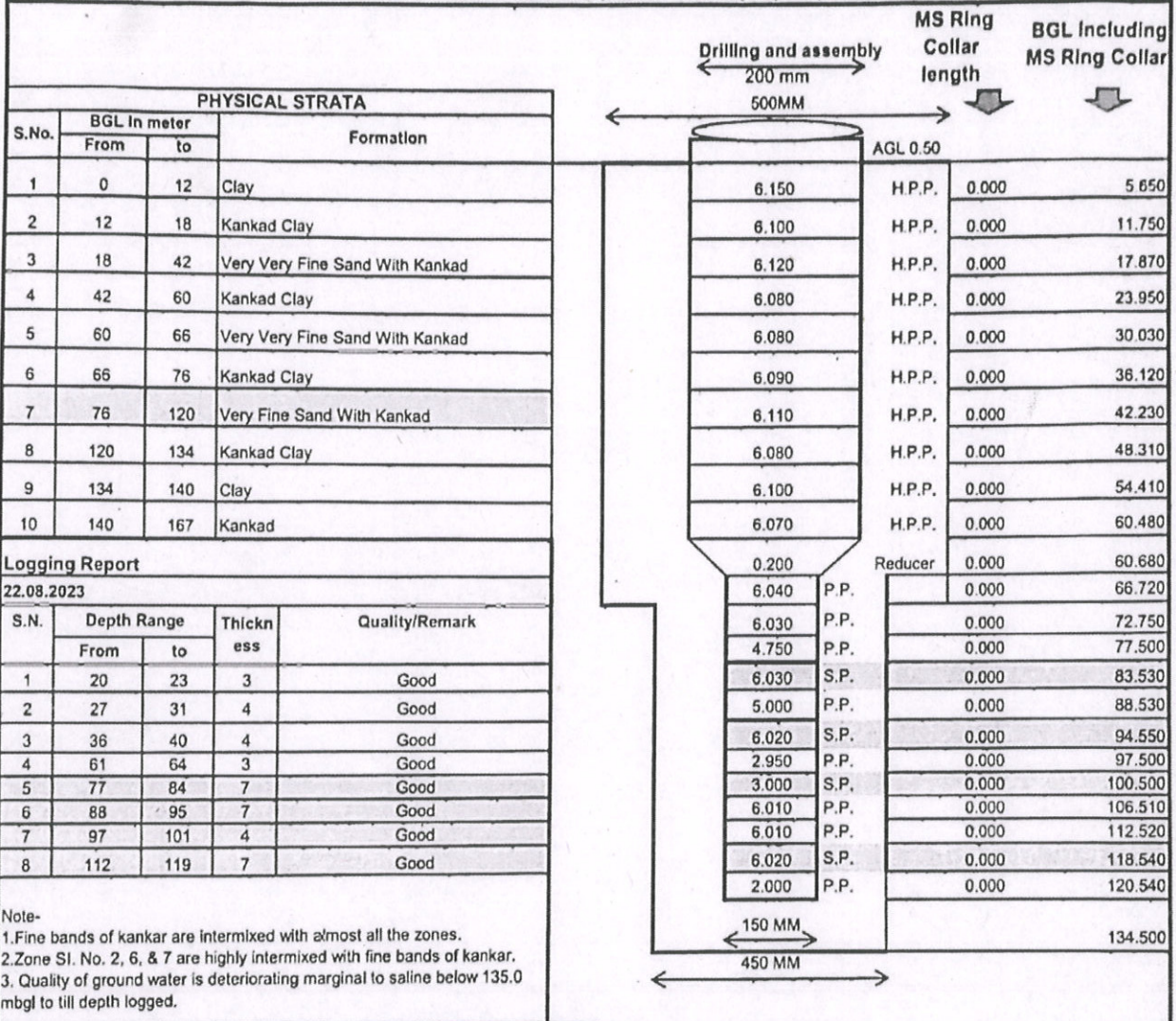


M/S VSAIPPL-SMC JV, Ghazipur (U.P)

ACTUAL STRATA CHART OF RANEEPUR REGRANISATION WSS, BLOCK -MARDAH, ZONE 1, GRAM PANCHAYAT - RANEEPUR T.W-3
Under Jal Jeevan Mission, District- Ghazipur(U.P.)



Logging Report

22.08.2023

| S.N. | Depth Range | | Thickn ess | Quality/Remark |
|------|-------------|-----|---------------|----------------|
| | From | to | | |
| 1 | 20 | 23 | 3 | Good |
| 2 | 27 | 31 | 4 | Good |
| 3 | 36 | 40 | 4 | Good |
| 4 | 61 | 64 | 3 | Good |
| 5 | 77 | 84 | 7 | Good |
| 6 | 88 | 95 | 7 | Good |
| 7 | 97 | 101 | 4 | Good |
| 8 | 112 | 119 | 7 | Good |

Note-

1. Fine bands of kankar are intermixed with almost all the zones.
2. Zone Sl. No. 2, 6, & 7 are highly intermixed with fine bands of kankar.
3. Quality of ground water is deteriorating marginal to saline below 135.0 mbgl to till depth logged.

| DETAILS | | AS PER DPR | | ACTUAL | |
|---------|---------------------------|------------|------|------------|------|
| 1 | Proposed Discharge | 450.000 | LPM | | |
| 2 | Clear Depth of bore 600mm | 0 | Mbgl | 0.000 | Mbgl |
| 3 | Clear Depth of bore 500mm | 65 | Mbgl | 65.000 | Mbgl |
| 4 | Clear Depth of bore 450mm | 200 | Mbgl | 167.000 | Mbgl |
| 5 | Plane pipe 300MM | 0 | m | 0.000 | m |
| 6 | Plane pipe 200MM | 60 | m | 60.980 | m |
| 7 | Plane pipe 150MM | 102 | m | 38.790 | m |
| 8 | Reducer 200 X 150 MM | | | 0.200 | m |
| 9 | Slotted pipe 300MM | 0 | m | 0.000 | m |
| 10 | Slotted pipe 200MM | 0 | m | 0.000 | m |
| 11 | Slotted pipe 150MM | 18 | m | 21.070 | m |
| 12 | Date of lowering | | | 04.09.2023 | |

| | | | | |
|-----------------------|---|---|-----------------------------------|------------------------------|
| (.....) Company Repr. | (.....) TRIA | (A.Srivastava) Junior Engineer | (Nitish Kumar) Assistant Engineer | (Adarsh Verma) Exe. Engineer |
| M/S VSAIPPL-SMC | Medhaj Techno Concept Pvt. Ltd., Ghazipur | Division Office(E/M), U.P. Jal Nigam(Rural), Varanasi | | |

M/S VSAIPPL-SMC JV, Ghazipur (U.P.)

Regd. Office-#10, APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072

Under Jal Jivan Mission, District- Ghazipur(U.P.)

Test Report of Raneepur GP (Zone-1, TW-3) Tubewell under Raneepur WSS, Block-Mardha Development By 250 PSI Air Compressor

Size of tube well (mm): 200 X 150 RPM 1300

Static water level (m): 8.40

Discharge by-90 'V' notch (Rectangular)

Depth of T/W (m): 120.540 Required Discharge- 450 LPM Date of testing 14-09-2023

| S. N. | Pressure in kg/cm ² | | Depression | | Depth of air line at the time of testing (m) | Discharge by 'V' Notch | | Sand content in P.P.M. | | | | |
|-------|--------------------------------|------------------|------------|---------|--|------------------------|------|------------------------|-------------|--------------|--------------|--------------|
| | Starting Pressure | Running Pressure | In | In mtr. | | Inch | LPM | At start | After 5 min | After 10 min | After 15 min | After 20 min |
| 1 | 10.30 | 9.60 | 0.70 | 7.00 | 113.00 | 6 3/4 | 1008 | 6400 | 3500 | 3300 | 3100 | 3000 |
| 2 | 8.80 | 8.20 | 0.60 | 6.00 | 98.00 | 6 1/4 | 831 | 5400 | 3000 | 2800 | 2600 | 2500 |
| 3 | 7.90 | 7.40 | 0.50 | 5.00 | 89.00 | 6 | 751 | 5000 | 2800 | 2600 | 2400 | 2200 |

Remark- Recommended for further development by O.P. Unit



Company Repre.

M/S VSAIPPL-SMC JV, Ghazipur (U.P.)

(.....) TPIA
Medhaj Techno Concept Pvt. Ltd., Ghazipur

(Abhishek Srivastava) Junior Engineer


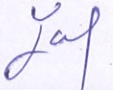


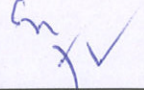
(Nitish Kumar) Assistant Engineer

(Adarsh Verma) Executive Engineer

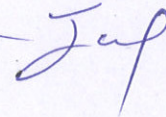
Division Office (E&M), U.P. Jal Nigam(Rural), Varanasi

| M/S VSAIPPL-SMC JV, Ghazipur (U.P) | | | | | |
|------------------------------------|---------------------------------|-----------------|--------------|-------------|---------|
| Job Code: | | Compressor unit | As per DPR: | 400 PSI | |
| Block: | MARDAH | Capacity | As per Site: | 250 PSI | |
| Scheme | RANEELPUR REORGANISATION SCHEME | Compressor unit | As per DPR: | 40 | |
| GP | RANEELPUR TW3, ZONE 1 | Hours | As per Site: | 49:00 | |
| Lowering Depth(mtr): | 120.540 | Cumm | | | |
| Lowering Date : | 4-Aug-23 | Gravel(cumt) | As per DPR: | 45.342 | |
| | | Cumm | | | |
| | | Gravel(cumt) | As per Site: | 39.82 | |
| SI No | Date | Start Time | End Time | Total Hours | Remarks |
| 1 | 6-Sep-23 | 8:09 AM | 9:12 AM | 1:03 | |
| 2 | | 10:20 AM | 11:39 AM | 1:19 | |
| 3 | | 12:24 PM | 1:37 PM | 1:13 | |
| 4 | | 2:20 PM | 3:33 PM | 1:13 | |
| 5 | | 4:00 PM | 5:10 PM | 1:10 | |
| 6 | 7-Sep-23 | 8:19 AM | 9:24 AM | 1:05 | |
| 7 | | 10:19 AM | 11:19 AM | 1:00 | |
| 8 | | 12:28 PM | 1:30 PM | 1:02 | |
| 9 | | 2:00 PM | 3:20 PM | 1:20 | |
| 10 | | 4:17 PM | 5:30 PM | 1:13 | |
| 11 | 8-Sep-23 | 8:39 AM | 9:24 AM | 0:45 | |
| 12 | | 10:13 AM | 11:30 AM | 1:17 | |
| 13 | | 12:28 PM | 1:20 PM | 0:52 | |
| 14 | | 2:00 PM | 3:30 PM | 1:30 | |
| 15 | | 4:13 PM | 5:30 PM | 1:17 | |
| 16 | 9-Sep-23 | 8:29 AM | 9:14 AM | 0:45 | |
| 17 | | 10:00 AM | 11:22 AM | 1:22 | |
| 18 | | 1:00 PM | 2:00 PM | 1:00 | |
| 19 | | 4:20 PM | 5:10 PM | 0:50 | |
| 20 | | 6:00 PM | 7:10 PM | 1:10 | |
| 21 | 10-Sep-23 | 9:00 AM | 10:10 AM | 1:10 | |
| 22 | | 11:00 AM | 12:16 PM | 1:16 | |
| 23 | | 2:00 PM | 3:09 PM | 1:09 | |
| 24 | | 4:00 PM | 5:10 PM | 1:10 | |
| 25 | | 6:29 PM | 7:04 PM | 0:35 | |
| 26 | 11-Sep-23 | 10:00 AM | 11:10 AM | 1:10 | |
| 27 | | 12:00 PM | 12:40 PM | 0:40 | |
| 28 | | 1:30 PM | 2:10 PM | 0:40 | |
| 29 | | 3:00 PM | 4:16 PM | 1:16 | |

Leaf

| M/S VSAIPPL-SMC JV, Ghazipur (U.P) | | | | | |
|---|---|--|--|---|---------|
| Job Code: | | Compressor unit | As per DPR: | 400 PSI | |
| Block: | MARDAH | Capacity | As per Site: | 250 PSI | |
| Scheme | RANEELPUR REORGANISATION SCHEME | Compressor unit | As per DPR: | 40 | |
| GP | RANEELPUR TW3, ZONE 1 | Hours | As per Site: | 49:00 | |
| Lowering Depth(mtr): | 120.540 | Cumm | | | |
| Lowering Date : | 4-Aug-23 | Gravel(cumt) | As per DPR: | 45.342 | |
| | | Cumm | | | |
| | | Gravel(cumt) | As per Site: | 39.82 | |
| SI No | Date | Start Time | End Time | Total Hours | Remarks |
| 30 | | 5:00 PM | 6:19 PM | 1:19 | |
| 31 | 12-Sep-23 | 8:00 AM | 9:14 AM | 1:14 | |
| 32 | | 10:10 AM | 11:40 AM | 1:30 | |
| 33 | | 1:30 PM | 2:10 PM | 0:40 | |
| 34 | | 3:20 PM | 4:26 PM | 1:06 | |
| 35 | | 5:30 PM | 6:29 PM | 0:59 | |
| 36 | | 13-Sep-23 | 9:20 AM | 10:30 AM | 1:10 |
| 37 | 11:05 AM | | 12:00 PM | 0:55 | |
| 38 | 2:10 PM | | 3:30 PM | 1:20 | |
| 39 | 4:06 PM | | 5:10 PM | 1:04 | |
| 40 | 6:19 PM | | 7:24 PM | 1:05 | |
| 41 | 14-Sep-23 | | 9:00 AM | 10:10 AM | 1:10 |
| 42 | | 11:00 AM | 12:12 PM | 1:12 | |
| 43 | | 2:00 PM | 3:09 PM | 1:09 | |
| 44 | | 4:00 PM | 5:00 PM | 1:00 | |
| 45 | | 6:29 PM | 7:04 PM | 0:35 | |
| | | | Total | 49:00 | |
| Note | Due to poor quality of strata, running hours of Compressor increase beyond the DPR qty. | | | | |
|  |  |  |  |  | |
| Site Incharge | TPIA | Junior Engineer | Assistant Engineer | Exe. Engineer | |
| M/S VSAIPPL-SMC JV, Ghazipur (U.P) | M/s Medhaj Techno Concept Pvt. Ltd., Ghazipur | Construction Division Office(E/M) ,U.P.Jal Nigam(Rural), Varanasi | | | |

Note: as per dpr working hr is 40hr. But in logsheet working hr is 49hr. So clarification is required approved hr is 40hr.



M/S VSAIPPL-SMC JV, Ghazipur (U.P.)

Regd. Office-#10, APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072

Under Jal Jivan Mission, District- Ghazipur(U.P.)

Yield Test Report Of T.W at Raneepur GP (Zone-1, TW-3) Tubewell under Raneepur Village WSS, Block-
Mardah by 1 Cusec O.P. Unit

Size of Ventury 4" X 3" Column Pipe Lowered(m): 30.00

Static water level(m): 6.30 Required Discharge(LPM)- 450 LPM Date: 31-12-2023

| S.N. | Discharge | | Running Water Level (m) | Depression (m) | Sand content in P.P.M. | | | | |
|------|-----------|------|-------------------------|----------------|------------------------|-------------|--------------|--------------|--------------|
| | Inch | LPM | | | At start | After 5 min | After 10 min | After 15 min | After 20 min |
| 1 | 43.00 | 1041 | 13.40 | 7.10 | 600 | 300 | 200 | 150 | 100 |
| 2 | 22.00 | 746 | 11.40 | 5.10 | 400 | 200 | 150 | 100 | 50 |
| 3 | 7.50 | 450 | 10.40 | 4.10 | 100 | 50 | Tr | Tr | Cl |

Remark- Recommended discharge 450 LPM L.P.M. at 4.1 m depression after running 20 minute bypass.

(.....)
Company Repre.

M/S VSAIPPL-SMC
JV, Ghazipur (U.P.)

(.....)
TPIA
Medhaj Techno Concept Pvt.
Ltd., Ghazipur

(Abhishek Srivastava)
Junior Engineer

(.....)
Assistant Engineer



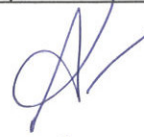
(Nitish Kumar)
Assistant Engineer


(.....)
Executive Engineer




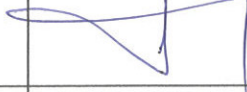
(Adarsh Verma)
Executive Engineer

Division Office (E&M), U.P. Jal Nigam(Rural), Varanasi

| M/S VSAIPPL-SMC JV, Ghazipur (U.P) | | | | | |
|------------------------------------|-----------------------------|---------------------------|--------------|------------|------------|
| Block: | Mardah | Op unit Capacity | As per DPR: | 1 cusec | |
| | | | As per Site: | 1 cusec | |
| Scheme | Raneepur REORGANISATION WSS | Op unit Hours | As per DPR: | 70 | |
| | | | As per Site: | 90.11Hrs | |
| GP | Raneepur Z-1,T.W-3 | Compressor Testing Date : | | | 14-09-2023 |
| | | SI No | Date | Start Time | End Time |
| 1 | 18-12-2023 | 08:25:00 | 09:55:00 | 1:30 | |
| 2 | | 10:23:00 | 11:55:00 | 1:32 | |
| 3 | | 12:21:00 | 13:20:00 | 0:59 | |
| 4 | | 15:46:00 | 17:17:00 | 1:31 | |
| 5 | | 19:45:00 | 20:31:00 | 0:46 | |
| 6 | 19-12-2023 | 08:45:00 | 09:40:00 | 0:55 | |
| 7 | | 10:45:00 | 11:51:00 | 1:06 | |
| 8 | | 12:50:00 | 13:20:00 | 0:30 | |
| 9 | | 15:57:00 | 17:17:00 | 1:20 | |
| 10 | | 18:02:00 | 19:10:00 | 1:08 | |
| 11 | 20-12-2023 | 19:41:00 | 20:32:00 | 0:51 | |
| 12 | | 08:55:00 | 09:50:00 | 0:55 | |
| 13 | | 10:34:00 | 11:53:00 | 1:19 | |
| 14 | | 12:50:00 | 13:20:00 | 0:30 | |
| 15 | | 15:56:00 | 17:18:00 | 1:22 | |
| 16 | 21-12-2023 | 19:40:00 | 20:30:00 | 0:50 | |
| 17 | | 08:15:00 | 09:40:00 | 1:25 | |
| 18 | | 10:45:00 | 11:50:00 | 1:05 | |
| 19 | | 12:50:00 | 13:20:00 | 0:30 | |
| 20 | | 15:56:00 | 17:18:00 | 1:22 | |
| 21 | 22-12-2023 | 19:41:00 | 20:34:00 | 0:53 | |
| 22 | | 08:55:00 | 10:16:00 | 1:21 | |
| 23 | | 10:44:00 | 11:55:00 | 1:11 | |
| 24 | | 12:42:00 | 13:48:00 | 1:06 | |
| 25 | | 15:56:00 | 17:26:00 | 1:30 | |
| 26 | 23-12-2023 | 18:12:00 | 19:20:00 | 1:08 | |
| 27 | | 19:42:00 | 21:11:00 | 1:29 | |
| 28 | | 08:45:00 | 10:10:00 | 1:25 | |
| 29 | | 10:44:00 | 11:50:00 | 1:06 | |
| 30 | | 12:53:00 | 14:21:00 | 1:28 | |
| 31 | 24-12-2023 | 15:46:00 | 17:16:00 | 1:30 | |
| 32 | | 18:02:00 | 19:10:00 | 1:08 | |
| 33 | | 19:51:00 | 21:09:00 | 1:18 | |
| 34 | | 08:35:00 | 10:05:00 | 1:30 | |
| 35 | | 10:44:00 | 11:55:00 | 1:11 | |
| 36 | 25-12-2023 | 12:42:00 | 14:12:00 | 1:30 | |
| 37 | | 15:44:00 | 17:18:00 | 1:34 | |
| 38 | | 18:12:00 | 19:20:00 | 1:08 | |
| 39 | | 19:40:00 | 21:00:00 | 1:20 | |
| 40 | | 08:45:00 | 10:10:00 | 1:25 | |
| 41 | 25-12-2023 | 10:44:00 | 11:50:00 | 1:06 | |
| 42 | | 12:50:00 | 14:10:00 | 1:20 | |
| 43 | | 15:50:00 | 17:21:00 | 1:31 | |
| 44 | | 18:02:00 | 19:10:00 | 1:08 | |
| 45 | | 19:43:00 | 21:00:00 | 1:17 | |

 Note: as per dpr work hr mention is 70hr. But in logsheet hr mention
 is 90.11 hr. So clarification require. approval hr is only
 70hr-


| M/S VSAIPPL-SMC JV, Ghazipur (U.P) | | | | | |
|---|-----------------------------|---|---|--|---------------|
| Block: | Mardah | Op unit Capacity | As per DPR: | 1 cusec | |
| | | | As per Site: | 1 cusec | |
| Scheme | Raneepur REORGANISATION WSS | Op unit Hours | As per DPR: | 70 | |
| | | | As per Site: | 90.11Hrs | |
| GP | Raneepur Z-1,T.W-3 | Compressor Testing Date : | | | 14-09-2023 |
| SI No | Date | Start Time | End Time | Total Hours | Remarks |
| 46 | 26-12-2023 | 08:55:00 | 10:17:00 | 1:22 | |
| 47 | | 10:44:00 | 11:56:00 | 1:12 | |
| 48 | | 12:40:00 | 14:00:00 | 1:20 | |
| 49 | | 15:56:00 | 17:26:00 | 1:30 | |
| 50 | | 18:13:00 | 19:20:00 | 1:07 | |
| 51 | | 19:43:00 | 21:00:00 | 1:17 | |
| 52 | 28-12-2023 | 10:44:00 | 11:50:00 | 1:06 | |
| 53 | | 12:50:00 | 14:10:00 | 1:20 | |
| 54 | | 15:56:00 | 17:08:00 | 1:12 | |
| 55 | | 18:02:00 | 18:28:00 | 0:26 | |
| 56 | 29-12-2023 | 08:45:00 | 10:00:00 | 1:15 | |
| 57 | | 10:45:00 | 11:52:00 | 1:07 | |
| 58 | | 12:40:00 | 14:01:00 | 1:21 | |
| 59 | | 15:56:00 | 17:16:00 | 1:20 | |
| 60 | | 18:12:00 | 19:20:00 | 1:08 | |
| 61 | 30-12-2023 | 08:45:00 | 10:10:00 | 1:25 | |
| 62 | | 10:48:00 | 11:48:00 | 1:00 | |
| 63 | | 12:55:00 | 14:12:00 | 1:17 | |
| 64 | | 15:56:00 | 17:18:00 | 1:22 | |
| 65 | | 18:02:00 | 19:10:00 | 1:08 | |
| 66 | | 08:45:00 | 10:10:00 | 1:25 | |
| 67 | 31-12-2023 | 10:44:00 | 11:50:00 | 1:06 | |
| 68 | | 12:50:00 | 14:10:00 | 1:20 | |
| 69 | | 16:08:00 | 17:18:00 | 1:10 | |
| 70 | | 18:02:00 | 19:13:00 | 1:11 | |
| 71 | 31-12-2023 | 19:40:00 | 20:09:00 | 0:29 | |
| 72 | | 08:45:00 | 10:10:00 | 1:25 | |
| 73 | | 10:44:00 | 11:52:00 | 1:08 | |
| 74 | | 12:50:00 | 14:10:00 | 1:20 | |
| 75 | | 15:56:00 | 17:19:00 | 1:23 | |
| | | | Total | 90:11 | |
| | | | Total (Hrs) | 90.11Hrs | |
|  | |  |  |  | |
| Site Incharge | | TPIA | Junior Engineer | Assistant Engineer | Exe. Engineer |
| M/S VSAIPPL-SMC JV, Ghazipur (U.P) | | M/s Medhaj Techno Concept Pvt. Ltd., Ghazipur | Construction Division Office(E/M) , U.P. Jal Nigam(Rural), Varanasi | | |



Tele Fax : +91-0522-246-5512(O)
 Mob. : + 91 - 9415141232, 9554034123
 E-mail : geo.instrument@outlook.com

GEO INSTRUMENTS & TECHNIC'S

(A Division of Geophysical Exploration and Instrumentation)

Sales & Service Dealer : Uptron Borehole logging system, UPTRON INDIA LTD., LUCKNOW

Ref:GIT:UP: PJM:23-24:LS: *K-160*
 Dated: 24-08-2023

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: **Ranipur**
 Block: **Mardah**
 District: **Ghazipur**
 State: **Uttar Pradesh**
 Date of Logging: **22-08-2023**
 Drilling Depth: **204.0 m bgl**
 Logging Depth: **167.0 m bgl**
 Rm - **12.0Ωm** Rw - **14.0Ωm**

Borehole Drilled by: M/s VSAIPPL-SMC (JV), Ghazipur, Uttar Pradesh.

Based on the interpretation of Self Potential (SP), Short Normal (N-16"), Long Normal (N-64") and Lateral 6' Geophysical Logs, following informations/granular zones have been deciphered with respect to Salinity only:

| Sl. No. | Depth Range (m bgl) | Thickness (meter) | Remark (Quality of Aquifer Water) |
|---------|---------------------|-------------------|-----------------------------------|
| 1. | 20 - 23 | 03 | Good |
| 2. | 27 - 31 | 04 | Good |
| 3. | 36 - 40 | 04 | Good |
| 4. | 61 - 64 | 03 | Good |
| 5. | 77 - 84 | 07 | Good -6 |
| 6. | 88 - 95 | 07 | Good -6 |
| 7. | 97 - 101 | 04 | Good -3 |
| 8. | 112 - 119 | 07 | Good -6 |

- Note: 1. Fine bands of kankar are intermixed with almost all the zones.
 2. Zones Sl. No. 6 & 8 are highly intermixed with fine bands of kankar.
 3. Quality of ground water is deteriorating marginal to saline below 135.0 m bgl to till depth logged.

For Geo Instruments & Technic's

S. Shukla
 (S. Shukla)

DPR
Q = 450
60 + 102 + 18
200 X 150

200 X 150

| | |
|---|--------|
| | 60 |
| | 77.50 |
| 6 | 83.50 |
| | 88.50 |
| 6 | 94.50 |
| | 97.50 |
| 3 | 100.50 |
| | 112.50 |
| 6 | 118.50 |
| 2 | 120.50 |
| | 134.50 |

Total SP = 2m
120.50

0000