



GROUND WATER INVESTIGATION CENTRE

(Ground Water Assessment & Allied Services)

9/43, Sector-9, Jankipuram Extension, Lucknow - 226031

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GSITN: 09ANAPS3037Q1ZG

MSME: UDYAM-UP-50-0135993

Ref: GIC/JJM/ Raebareli/377

Date: 23.06.24

GEOPHYSICAL BOREHOLE ELECTRICAL LOGGING REPORT

Site's Location : Village – Umramau, Block – Dalmau
District - Raebareli
Latitude – , **Longitude** –

Drilling Depth : 280 mbgl as reported by Driller

Logged Depth : 275mbgl

Date of Logging : 23.06.24

Types of Log : S.P. & Resistivity (Normal & Lateral)



Logger Used : Upton

Details of major aquifer formations explored from interpretation of Geophysical Logs are given below.

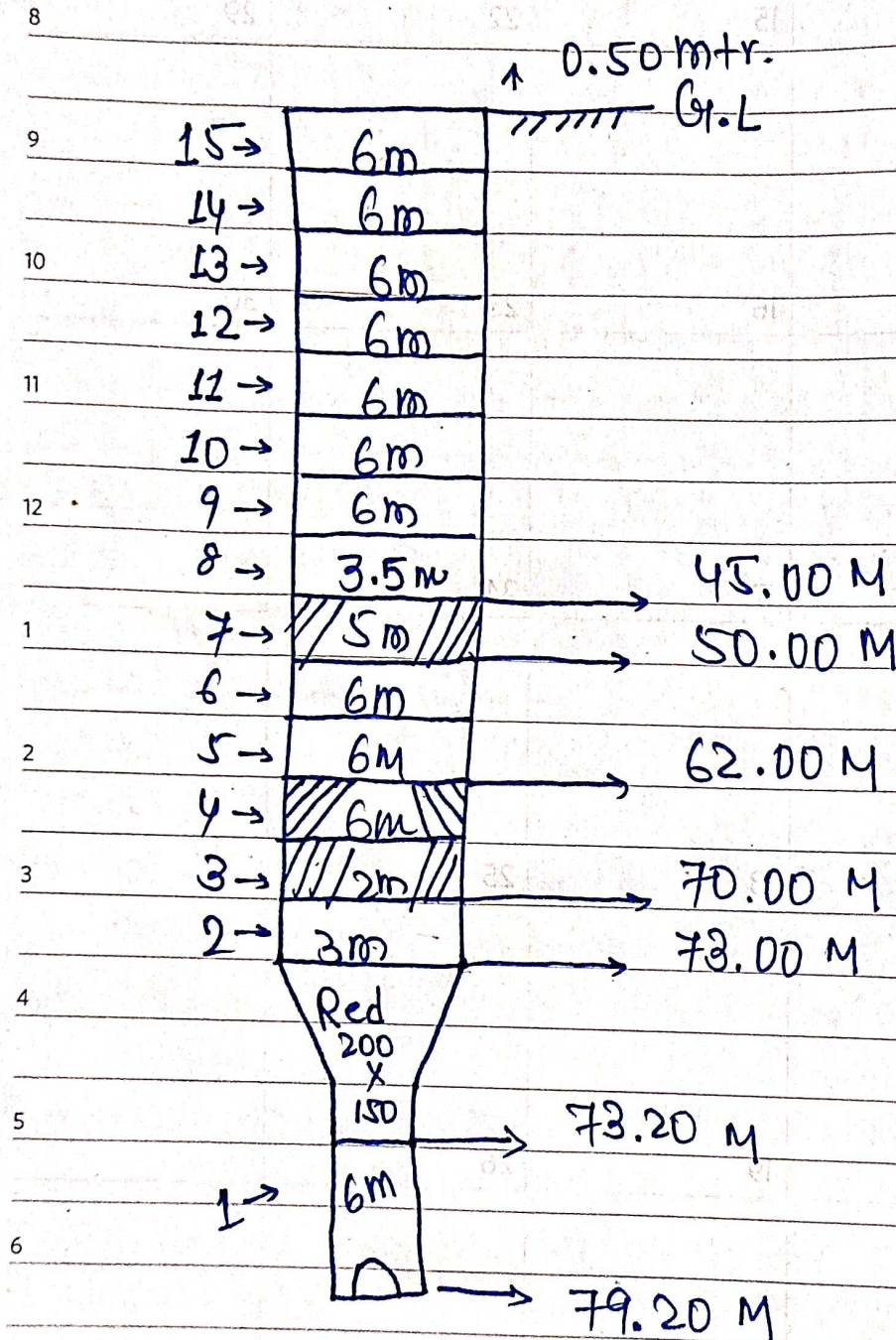
Sl. No.	Depth Range (m, bgl)	Thickness (m)	Types of strata	R_{mf} & R_w
1	30 – 41	11	Good	$R_{mf} = 12.1 \Omega m$ $R_w = 15.6 \Omega m$
2	45 – 50	5	Good	
3	62 – 70	8	Good	

Remark: Almost all zones are intermixed with fine bands of kankar. Formation water quality is deteriorating marginal to saline below 75 mbgl to till depth logged.

C C : M/s Hugel Infra Private Limited



(R.K. Singh)
Geophysicist

Umrantau lowering chart



1) Discharge → 450 LPM

2) T_W size → 200 X 150 mm (500 X 450 mm)

UP JAL NIGAM

(Final payments must invariably be made on forms printed on yellow paper which should not be used for intermediate payments)
FORM 27- RUNNING ACCOUNTS BILL B

(See Chapter X, Paragraphs, 284, 287 and 289)
(For Contractors This form provides only for (1) Advance payments (2) Secured Advance and (3) Payment for Measured works)

Dated-

Cash Book Voucher No:-

Name of Contractor :- M/s Hugel Infra Pvt Ltd, RO Project, Lucknow

Executive Engineer, Divisional Office(E&M)Rural,U.P.Jal Nigam, Lucknow

Name of Work :- Re-Organization work of water supply scheme on solar based including survey Design, Supply of all materials, labour T&P complete in all respect on turn-key basis after completion, commissioning and completion of trail-run with defect liability period of works including Har Ghar Jal certificate and handing over to Gram panchayat for District Raebareilly. Under Jal Jeevan Mission Programme mentioned as under LODIPUR UTRAUWA G.O.V. (PACKAGE-05)

Serial No. of this Bill :- RA-7

Number and date of this Previous Bill for this work :-

Reference to agreement :-

Agreement No.- 216/M-7/18 Dated 19.05.2023

Cover Agreement No & DT : 25/SE/LUCKNOW MANDAL/2023-24/LODHIPURUTR

Tri Partite Agreement No. LODIPUR UTRAUWA G.O.V. (PACKAGE-05)

Name of Scheme :- LODIPUR UTRAUWA

I-Account of work executed

Name of Scheme :- LOUPUR UTRAWWA											
I-Account of work executed											
Advance Payment's For			Items of work (grouped under "sub-heads" and "sub-work" of estimate)	Unit	Rate	Quantity executed up to date as per measurement book	Previous Bill Quantity executed as per measurement book	Payment on the basis of actual		Remarks (with reasons for delay in adjusting payment shown in column 1)	
Total as per Previous bill	Since Previous Bill	Total Up to date						Upto date	Since Previous Bill		
1	2	3	4	5	6	7		8	9	10	
Rs.	Rs.	Rs.	BOQ S.No.		Rs.	P.		Rs.	P.	Rs.	P.
			3	DC/RC Drilling up to 100Mtr.				27549.77	244706.8		
			4	450 MMØ	Rmt	1620.575	17.00	151.00	148875.24	384119.0	
			5	500 MMØ	Rmt	1793.690	83.00	203.00	0.00	487520.1	
				600 MMØ	Rmt	1981.789		246.00	0.00	0.0	
			6	DC/RC Drilling from 101 MT. To 200 Mtr.Deep				0.00	0.00	0.0	
			7	450 MMØ	Rmt	1925.756	100.00	600.00	192575.60	0.0	
			8	DC/RC Drilling from 201 MT. To 300 Mtr.Deep				0.00	0.00	0.0	
			9	450 MMØ	Rmt	2542.119	75.00	483.00	190658.90	1227843.3	
				DC/RC Drilling from 301 MT. To 400 Mtr.Deep				0.00	0.00	0.0	
				450 MMØ	Rmt	2979.978		96.00	0.00	286077.9	
			10	Tube Well Assembly				0.00	0.00	0.0	
			11	MSERW plain pipe As per IS 4270				611.40	9524.02	970497.2	
			12	150 MMØ	Rmt	1587.336	6.00	172.00	122443.13	348102.8	
			13	200 MMØ	Rmt	2023.853	60.50	172.00	0.00	587429.3	
				300 MMØ		3166.735		185.50	0.00	0.0	
			14	MSERW Pipe slotted pipe as per IS 8110				0.00	0.00	0.0	
			15	150 MMØ	Rmt	2444.497		48.00	0.00	117335.9	
				200 MMØ	Rmt	3042.764	13.00	12.00	39555.94	36513.2	
				300 MMØ	Rmt	4529.820		39.00	0.00	176663.0	
			16	MS Ring				0.00	0.00	0.0	
			17	150 mm ø MS. Ring made by 150 mm x 12 mm Flat	Nos.	1007.958		110.00	0.00	110875.4	
			18	200 mm ø MS. Ring made by 150 mm x 12 mm Flat	Nos.	1269.869	13.00	29.00	16508.29	36826.2	
				300 mm ø MS. Ring made by 175 mm x 16 mm Flat	Nos.	1642.893		38.00	0.00	62429.9	
								0.00	0.00	0.0	
			19	MS Bail plug As per IS 2800				6.00	1369.08	8214.5	
			20	150 mm ø M.S. Bail Plug	Nos.	1369.077	1.00	0.00	0.00	0.0	
			21	Reducer-				3.00	3293.72	9881.2	
			22	200 x 150 mm Reducer	Nos.	3293.722	1.00	3.00	0.00	13095.5	
				300 x 150 mm Reducer (16mm)	Nos.	4365.174		0.00	0.00	0.0	
			23	MSSI Clamp- As per IS 2800				3.00	1587.34	4762.0	
			24	200 mm ø MS S.I. Clamp	Nos.	1587.336	1.00	3.00	0.00	9643.1	
				300 mm ø MS S.I. Clamp (16mm)	Nos.	3214.355		0.00	0.00	0.0	
			25	TW Assy Support-				0.00	0.00	0.0	
			26	200 mm ø Tubewell Assembly Support	Nos.	12301.854	1.00	3.00	12301.85	36905.6	
				300 mm ø Tubewell Assembly Support (16mm)	Nos.	13889.190		3.00	0.00	41667.6	
			27	MS Well Cap-				0.00	0.00	0.0	
			28	200 mm ø MS Well Cap	Nos.	1071.452	1.00	3.00	1071.45	3214.4	
				300 mm ø MS Well Cap (12mm)	Nos.	1230.185		3.00	0.00	3690.6	
								0.00	0.00	0.0	
			29	Centre Guide-				16.00	0.00	11682.8	
			30	Center guide for 150mm øTW Assembly	Nos.	730.175		0.00	0.00	0.0	
			32	Lowering up to 100 Mtr. Deep				0.00	0.00	0.0	
			33	150 MMØ MSERW Plain/Slotted Pipe	Rmt	214.290	6.20	136.10	1328.60	29164.9	
			34	200 MMØ MSERW Plain/Slotted Pipe	Rmt	273.022	73.00	182.50	19930.59	49826.5	
				300 MMØ MSERW Plain/Slotted Pipe	Rmt	369.849		223.00	0.00	82476.3	
			35	Lowering from 101 Mtr. To 200 Mtr. Deep				0.00	0.00	0.0	
			36	150 MMØ MSERW Plane/Slotted Pipe	Rmt	251.672		300.00	0.00	75501.6	
			37	Lowering from 201 Mtr. To 300 Mtr. Deep				0.00	0.00	0.0	
			38	150 MMØ MSERW Plane/Slotted Pipe	Rmt	299.213		203.50	0.00	60889.8	
			39	Lowering from 301 Mtr. To 400 Mtr. Deep & above				0.00	0.00	0.0	
				150 MMØ MSERW Plane/Slotted Pipe	Rmt	338.523		21.00	0.00	7109.0	
			40	Logging of Borehole by Electric logging	Job	14286.024	1.00	7.00	14286.02	100002.2	
			41	Supplying and unconsolidated packing of gravel with suitable size	Cum	5945.367	33.69	244.17	200299.41	1451680.3	
			41A	Supplying and unconsolidated packing of gravel with suitable size	Cum	5945.367		75.89	0.00	451193.9	
			43	350 PSI Compressor per hour	Hr.	3373.089		171.66	0.00	579024.4577	
				600 PSI Compressor per hour	Hr.	3968.340		59.83	0.00	237425.7822	
			45	Charges for Development of TW by 1 cusec OP Unit	Hr.	892.877		382.00	0.00	341079.014	
				Carried over					1003159.96	8655070.80	

Quantity Deducted
by outlay
from previous bill
Quantity utilized
in work
from previous bill

1	2	3	4	5	6	7	8	9	10
Rs.	Rs.	Rs.							
			Brought forward					1003159.96	8665070.80
50			SITC of Energy efficient AC Submersible Pumping plant with submersible flat cable of suitable length, main Piping & Valves with 08 nos Column Pipes, Distance piece for Rising Main and Bypass side, NRV cum Pump and Column Pipe Jointer, Power wiring, Chemical earthing, Painting, wiring of pump house (Internal & External) and Installation Job of Pumping Plant complete in all respect with all required material, T&P labour complete in all respect for following duties in Solar Powered Applications-10 HP	Nos.	102702.374			0.00	305404.7472
51			SITC of Energy efficient AC Submersible Pumping plant with submersible flat cable of suitable length, main Piping & Valves with 08 nos Column Pipes, Distance piece for Rising Main and Bypass side, NRV cum Pump and Column Pipe Jointer, Power wiring, Chemical earthing, Painting, wiring of pump house (Internal & External) and Installation Job of Pumping Plant complete in all respect with all required material, T&P labour complete in all respect for following duties in Solar Powered Applications-12.5 HP	Nos.	100527.918			0.00	508583.7552
57			3Mtr. Long Column Pipe as per IS 1239 with Necessary packings and nut & Bolts etc.					0.00	0
58			80 mm dia	Nos	3571.506			0.00	57144.096
59			100 mm dia	Nos	4087.390			0.00	4087.39
60			SITC of Chain Pulley Blocks 2 TONNE	Job	36710.320			0.00	0
61			SITC of Solar power plant (for complete plant) including solar panels, VFD, Structure, earthing of all electrical items, Balance of system with auxiliary load arrangements for Field monitoring devices, Cleaning arrangements for solar panels, Interlocking Pavement below solar panels and Installation and commissioning with civil works etc. complete in all respect with required material T&P labour	KW	68890.382			0.00	0
62			Internal electrification of Tubewell	LS	19841.700				
			SubTotal (1)					1003159.96	9660290.79
			SubTotal (2)						1608723.15
			SubTotal (3)						0.00
			As per Schedule-J (E&M) 1-Tubewell:- (i) On construction of TW		70%			702211.97	7888309.76
			(ii) On Development of TW by Compressor & O.P. Unit		20%				321744.63
			(iii) On Water Test		5%				80436.16
			(iv) On Hand Over		5%				0.00
			2-Pumping Plant:- (i) On Supply		75%			0.00	0.00
			(ii) On Installation		10%				0.00
			(iii) On Commissioning		10%				0.00
			(iv) On Hand Over		5%				0.00
			(i)+(ii)+(iii)-SubTotal (2)					702211.97	8290490.55
			Deduction of sluice valves against sitc of pumping plan						0.00
			Sluice valve -150 mm dia		15476.526			0.00	0.00
			Sluice valve -100 mm dia		11349.452			0.00	0.00
			Sluice valve -80 mm dia		9285.916			0.00	0.00
			Sub Total(-2)			(-)			92859.16
			SubTotal (3)					702211.97	8197631.39
			CGST@9%			9% of Subtotal(3)		63199.08	8197631.39
			SGST@9%			9% of Subtotal(3)		63199.08	8197631.00
			Grand Total Say:-					828610.13	24592893.78
								828610.00	24592894.00
Figure (D) in words Rupees			Total	Total value of work done up to date (A)					
				Deduct value of works shown on previous					
				Net Value of work since previous bill (F)...					
				Figure (F) in words					

* Wherever there is an entry in column 9 on the basis of actual measurement the whole of the amount previously paid without detailed measurement should be adjusted by a minus entry in column 2 equivalent to the amount shown in column 1, so that the "Total up to date" in column 3 may become "Nil"

* When two or more entries in column 9 relating to each sub-head or estimate they should in the case of work the accounts or which are kept by sub-heads, the totalled and the total recorded in column 10 on posting the works abstracts.

(3)

II- Account of " Secured advances allowed on the security of materials brought to site

Quantit y outsta nding from previou s bill	Deduct quantit y utilized in work measu red since previou s bill	*Quantity out standing including quantity brought to site since previous bill	Full rate as assessed by the Divisional Officer	Description of materials	Unit	Reduced rate at which advance is made	** Up-to date amount of advance	Reference to Divisional Officer written orders authorizing the advance	Reason for non- clearance of advance when out standing more than three months
1	2	3	4	5	6	7	8	9	10
			Rs. P.			Rs. P.		No	Date
Total amount out standing as per this an Nil									
Deduct amount out standing as per entry (C) or previous Nil									
Net amount since previous bill in words Nil								(C)	
* Entries relating to each description of materials should be posted thus in coulmn 3 first enter the different between the quantities in coulmn 1 and 2. Then show								(E)	
** Entries in column 3 show the money values of the total quantities outstanding as per column 3.									

III - Certificates and Signatures

1. The measurement on 20..... And are recorded at page
2. Certified that in a addition to and quit a part from the quantities of work actually executed as shown in a column 7 of Account proportionate 1
- *3 Certified (1) that the plus quantities of materials shown in column 3 of account II above have actually been brought by the contractor to the site of the work and the

which are based the entries in column 4 to 9 of Account I wer made by on of measurement Book No.

Dated signature of officer
Preparing the bill

(Rank)

Sub-Division

Sub-Divisional Officer
Divisional

* Dated signature of officer
authorizing payment

(Rank)

Authorized Signature

Shashank Kumar
Sr. Engineer
Hugel Infra Pvt. Ltd. Raebareli

Dated signature of Contractor

* These certificates must be signed by the sub-divisional Officer.

* This signature is necessary only when the officer who prepares the bill is not the officer who authorises the payment in such a case the two signautres are essential.

(4)
IV- Memorandum of Payments

1. Total value of work actually measured as per Acct. 1, Col. 8 Entry (A)
2. Total "up to date" Advance for work not yet, measured, as per Acct. 1, Col. 3.
3. Total "up to date" Secured advances on security of material, as per Acct. 1, Col. 8, Entry (c)
4. Total (items 1+2+3)
5. Deduct Amount withheld

Figure for
works Abstract

- (a) From previous bill, as per last Running Account Bill.....
- (b) From this bill

Rs. P.

6. Balance, i.e., "up to date" payments
7. Total amount of payment already made as per entry (K)
Account Bill No. Of 20..... forwarded
8. Payments now to be made as detailed below:
By recovery of amounts creditable

Rs. P.

(Items 4-5) (K)
of last Running
with

Rs. P.

Total 5 (b) + 6(a) (G)

By recovery of amount creditable
to other works at heads of
(b) account:

(b)

(c) By Cheque

Total (8) (b) x (C) (H)

Pay Rs.

By Cheque

(Dated initials of Disbursing officer)

Received Rs.
memorandum on account of this work.

Dated the 20.....

** witness

Paid by me, vide cheque no.

Date

20

(Dated initials of person actually making the payment)

contractor

Shashank Kumar

Dr. Engineer

Mughal Pvt. Ltd., Raebari

* This figure should be tested to see that it agree with the total of Items 7 and 8.

* Here specify the amount payable, vide Item 8 (a)

* If the net amount to be paid is less than Rs. 10 and it cannot be included in a cheque the payment should be pay in cash, this entry being altered suitably and the alteration attested by dated initials.

? The payee's acknowledgement should be for the gross amount paid as Item 8 (i.e. a+b+c)

** Payment should be attested by some known persons when the payee's acknowledgment is given by a mark, se or thumb impression

V-Remarks

This space is reserved for any remarks which the Disbursing officer or the Divisional Officer may wish to record of the execution of the work, check or measurement or the state or contractor's account.

DIVISIONAL OFFICE (E/M), U.P. JAL NIGAM, LUCKNOW

District - Raebareli
LPM-450

Size of h...

Static W/L-
500 x 450mm,
URAV KR GUPTA

Static W/
URAV KR. GUPTA) RO WSS PROJECT RAEBARELI

[illegible]

ABSTRACT

1. Drilling Started on Dated - 18-06-2024

2. Drilling Completed on Dated - 01-07-2024

3. Drilling Depth - 500 mm Dia

450 mm Dia

Total -

4. Assembly lowered on Dated -03-07-2024

5. Assembly Lowered -

(A) Housing pipe 200 mm dia (AgL) -

(B) Housing pipe (Plain) 200 mm dia (BGL) -

(C) Slotted pipe 200 mm dia -

(D) Reducer (200 mmX 150 dia) -

(E) Slotted pipe 150 mm dia -

(F) Plain pipe 150 mm dia -

Total assembly -

7. Yield Test Date of T/w - N/A

8. Recommended Discharge - N/A

9. Pea-Gravel - 33.69 CUM

10. MS Ring 200mm- 13 NOS.

11. MS Ring 150mm-20 NOS

12. MS Ball Plug 150mm- 1 NOS

13. MSSI Clamp 200mm - 1 NOS

14. MS Ball Plug 200mm - 1 NOS

15. TW Assembly Support- 200mm- 1 NOS

16. MS Well Cap- 200mm- 1 NOS

17. Center Guide- 200mm- 6 NOS

18. Center Guide- 150mm- 00 NOS

pen

LOGGING REPORT (Ground Water Investigation Center) REF: A-GIC/JIM/Raebarili/377; Dated: 23-06-2024

Depth Logged-275 mbl

Sr.	Depth fangee Mbl	Thickness (M)	Types of strata
1	30-41	11	Good
2	45-50	5	Good
3	62-70	8	Good

Note:- 1. Almost all zones are intermixed with fine bands of kankar. Formation water quality is deteriorating marginal to line below 75 mbel to till depth logged.

Prepared & Proposed By

Checked By

Junior Engineer
(HID IN)

Recommended By
Assistant Engineer

Approved By _____
Executive Engineer

**WSS MODELING PARTNERSHIP,
PROJECT (RO WSS-Raebelli)**

Chasank Kumar

Sr Engineer

Raebarell