



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. **Date of Logging:** 17/07/2023
2. **Village:** Zordih
3. **Location:** Puliya
4. **Block:** Ikauna
5. **District:** Shravasti
6. **Latitude & Longitude:** 27.4308 & 82.0555.
7. **Drilling depth:** 165m bgl
8. **Logging depth:** 162 m bgl
9. **Logging Company:** UP Ground Water Department
10. **Bore hole drilled by:** Vishwanath Project Ltd.
11. **Recorded Geophysical log data:** SP, Natural gamma & Resistivity (16 N & 64 N).
12. (i) **Resistivity of Mud (Rm):** 13.80 ohm-m. (ii) **Resistivity of fresh water (Rf):** 13.80 ohm-m.
13. **On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-**

(a) **Acquifer:** The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones.

(b) **Clay:** The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

Based on the downhole Geophysical Parameters following information (Granular zones) deciphered:-

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Acquifer Recommendation	Remark (Quality of aquifer water)
1.	10-37	27	Medium to fine sand		Good
2.	50-93	43	Medium to fine sand	Recommended	Good
3.	112-118	6	Medium to fine sand	Recommended	Good
4.	124-127	3	Medium to fine sand	Recommended	Good
5.	138-145	7	Medium to fine sand	Recommended	Good

14. **Note:-**

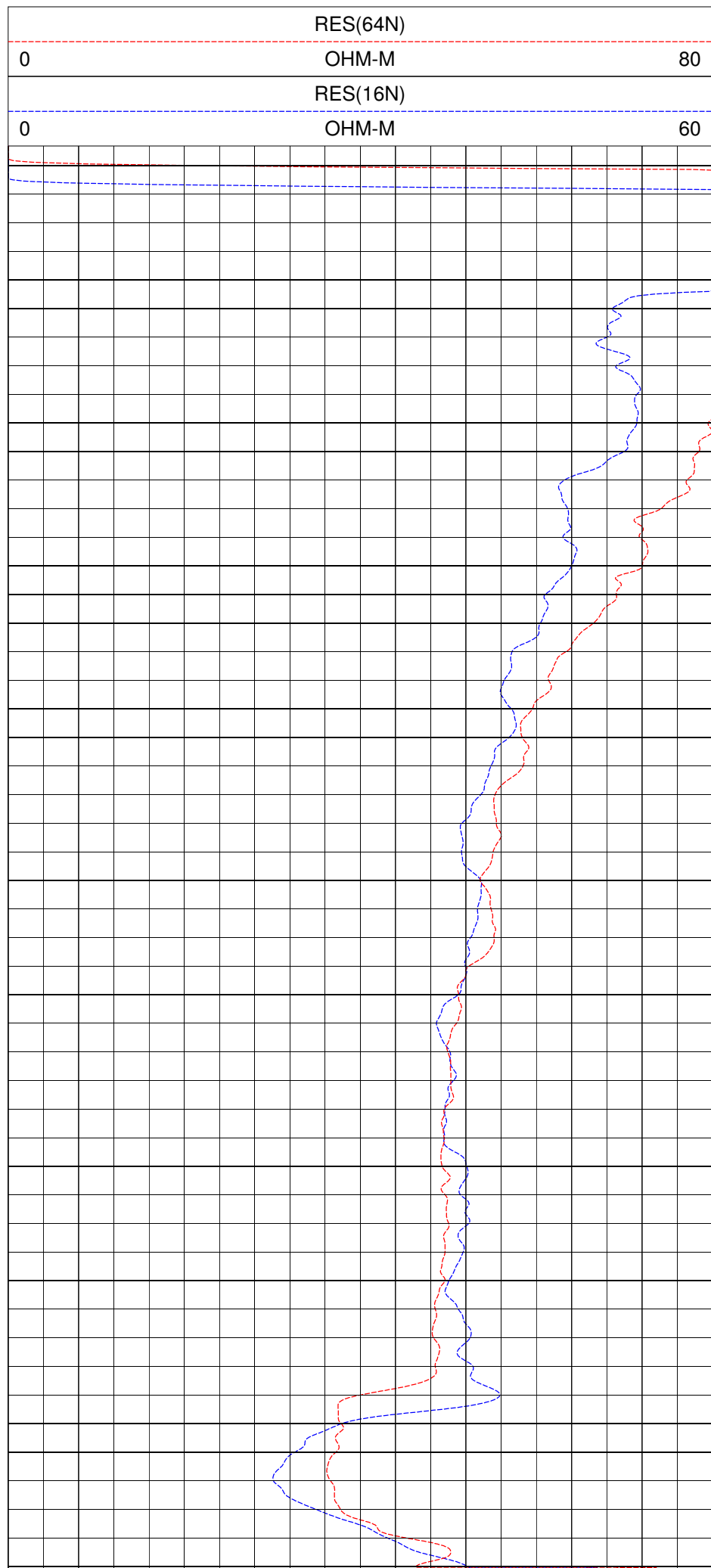
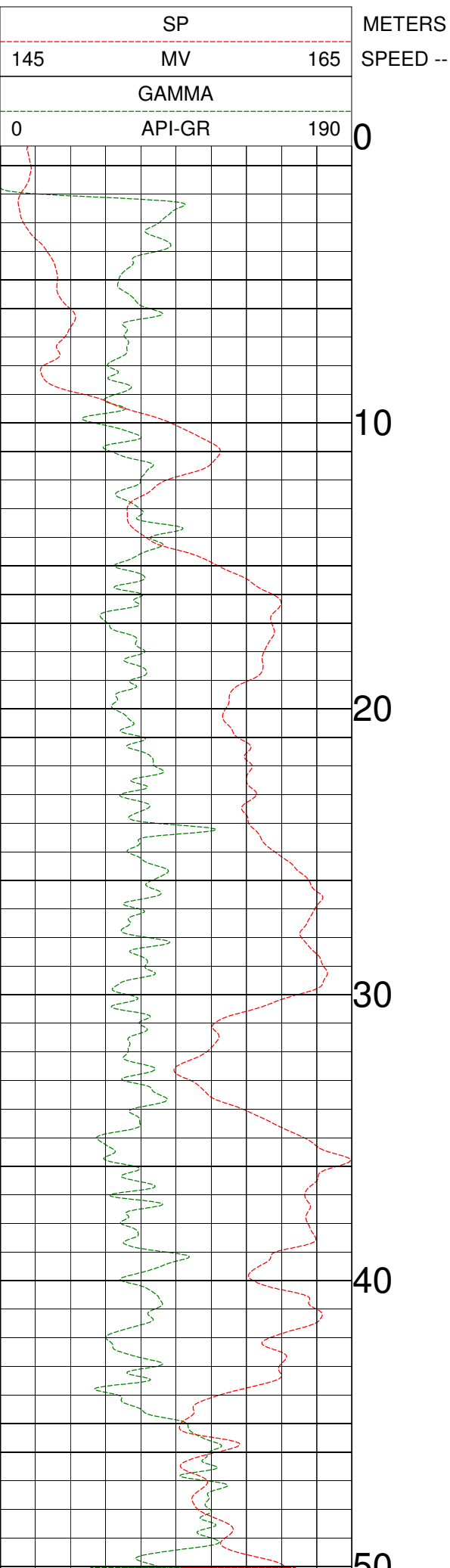
(i) All Zones are intermixed with kankar.

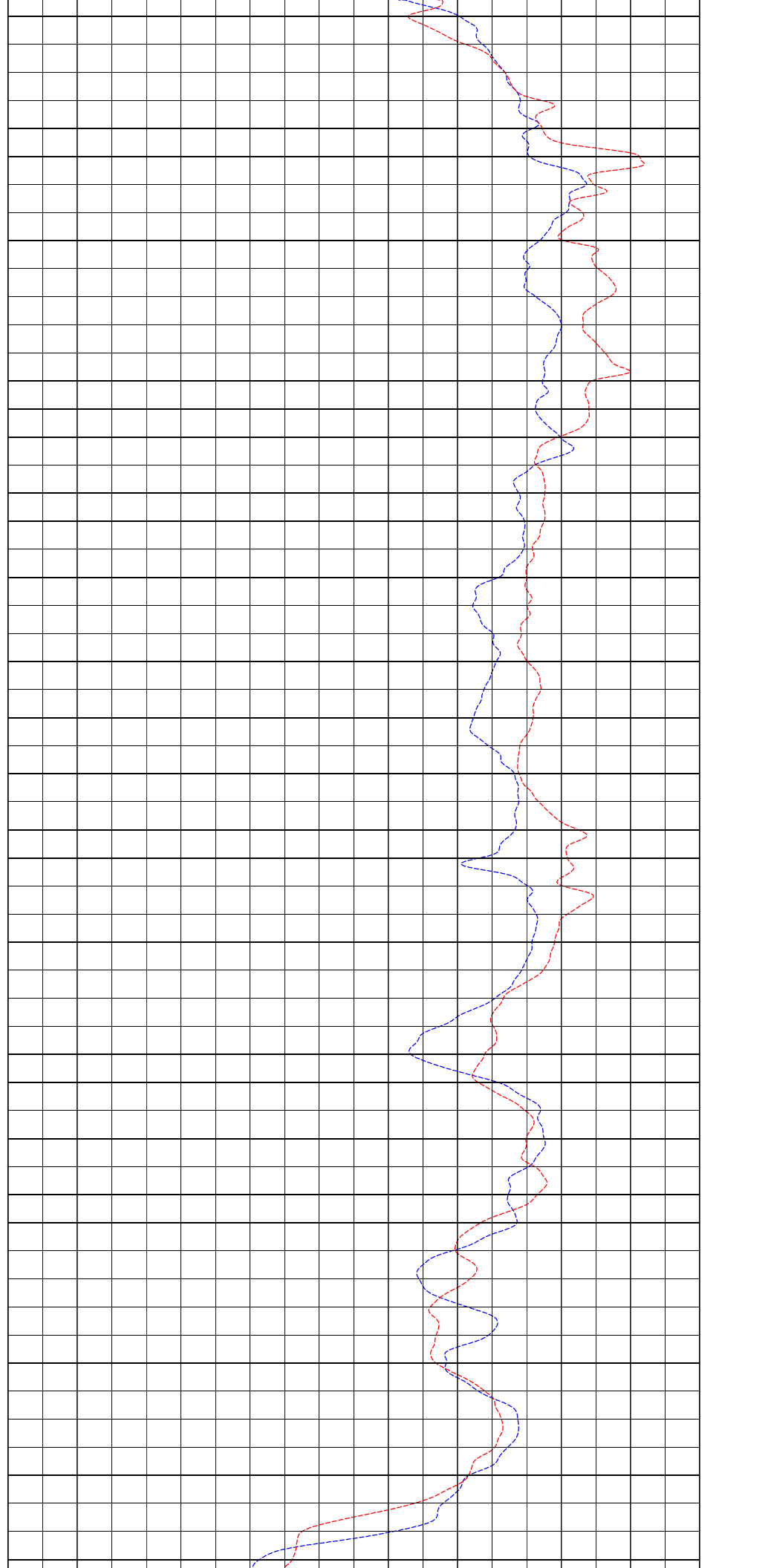
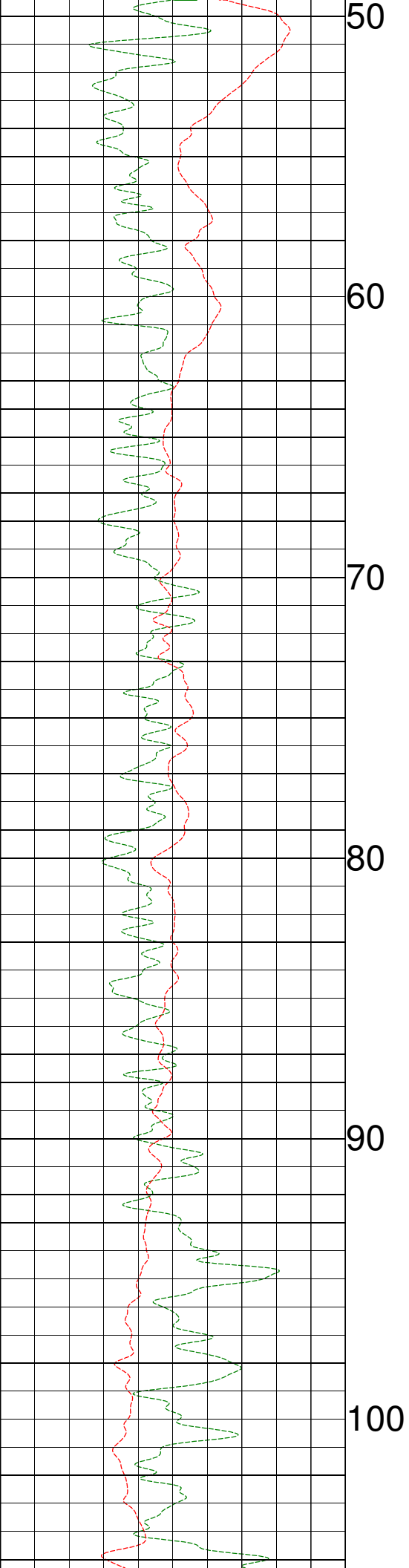
(ii) Zone 1, 2 & 3 is intermixed with thin layers of kankar.

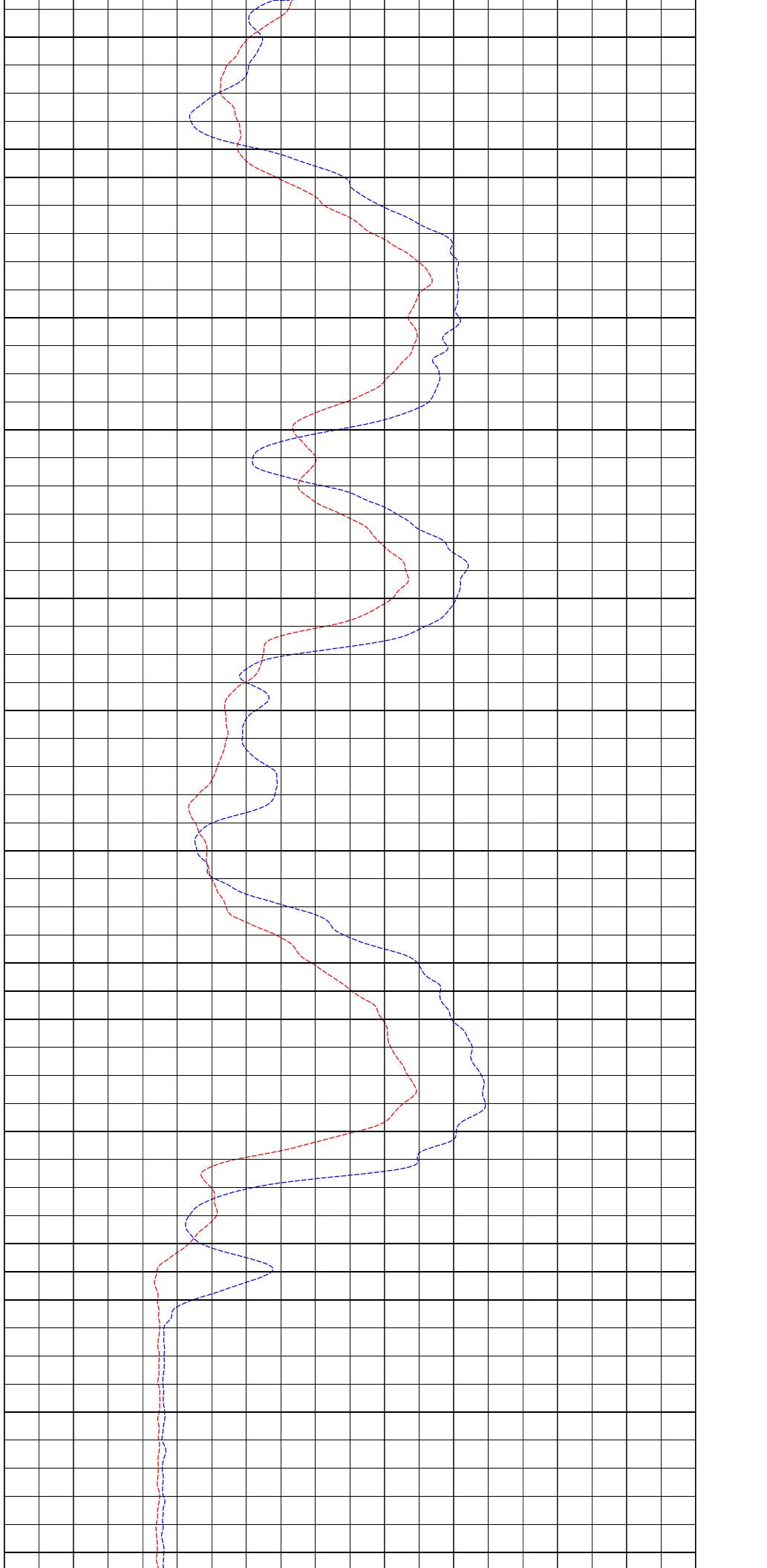
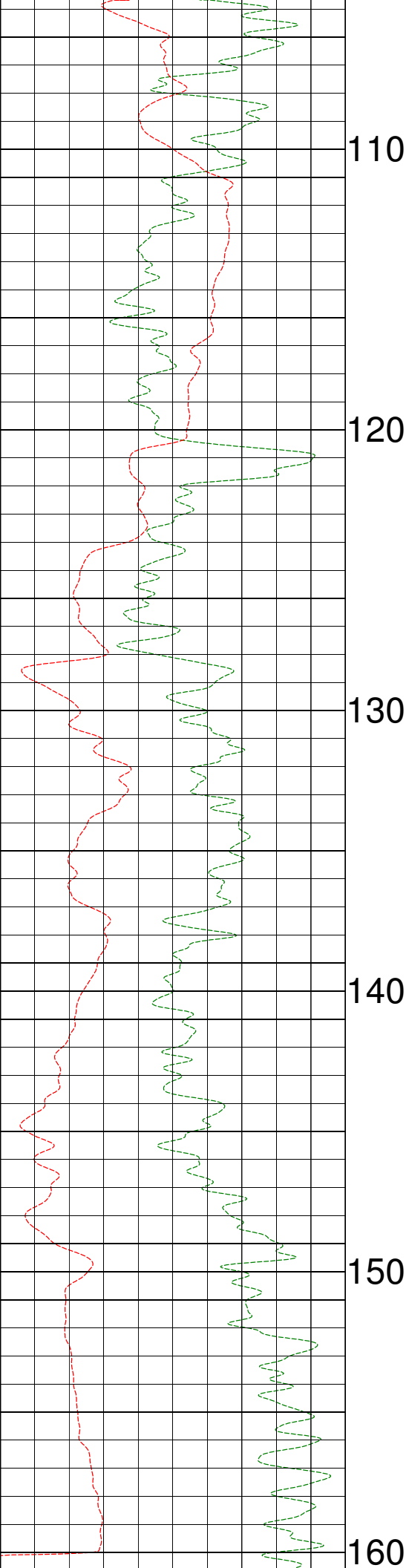
15. **Quality of the formation water is good up to Logging depth.**

16. **Log Attached.**

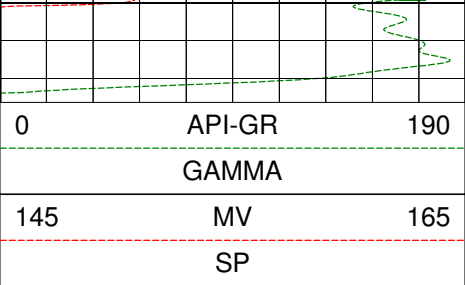
Rajeev Kumar
Rajeev Kumar
Geophysicist
National Hydrology Project
Ground Water Department Lko. U.P.







160



SPEED --
METERS

