

An Experimental Study on Water Dowsing

B. M. More

Department of Engineering Physics,
Brahmadevdada Mane Institute of Technology, Belati, Solapur- 413002, M. S. India
Email: babasahebmore@gmail.com

Abstract – Dowsing is a traditional way of searching underground water stream. The examples of traditional methods of dowsing are forked stick, L-shaped metal rods, coconuts, key wires, hangers, pendulum, etc. Many researchers have shown beyond a reasonable doubt that water dowsing does not work. A dowsing is worse than a common sense institution or is a good bargain for no cost. The Dowsers confessing that, dowsing is witchery, and it violates every principle of science, the other reports unknown force acting on dowsing devices which have independent existence.

Quantitative investigations of dowsing, but, is now a field of active Research. Many experiments are performed by scientist and they showed that no influence of electric or magnetic field on dowsing devices. The only influence of gravitational force on these devices will be acting. Now a day's impact of dowsing is distinct and used by geologist, engineers and even the military. This article introduces four of the dowsing methods and explains how they are based on science.

Keywords – Water Dowsing, L-Shaped Iron Rods Dowsing, Coconut Dowsing And Pendulum Dowsing.

I. INTRODUCTION

The Dowsing is a term that's used for the practice of searching underground water by various methods. There are different ways of dowsing, 1) Walking in the field in a straight line, 2) Walking in the field, along a curve, 3) By standing in one spot and/or moves and 4) Without entering into the field[1-6]. The Dowsers use different materials for the dowsing, such as metal rods, Y stick from trees, coconut, key wires, pendulum, etc. In experiments dowsing the metal wire crosses each other, where the Dowsers remarks. The primary assumption was that changes in magnetic field cause roads to cross. Although great efforts are made to sure the effect of magnetic or electric field, the wires did not experience it at long distance[7-8].

The Dowsers claim that they have a natural sensitivity to assert earth magnetism, water radiations or the other natural phenomenon's. They believe that their dowsing stick or other materials identifies this energy. But this explanation has no scientific base[9-10]. There are natural indicators of underground water stream, such as Neem, tamarind trees. The twigs of these trees have unusual growth and twigs bend a plane in the downward direction. Intersect of these planes to ground surface shows the stream direction. This unusual growth of twigs of trees, bending in the downward direction is due to increased gravitational force on these twigs. This increased gravitational force on twigs is because of the underground water stream below it [11]. The different dowsing materials used to give the indications based on principles

of science. The different indications by dowsing materials is because of the more gravitational force acting on materials due to steady or moving water [11-15]. In this article, I have explained four dowsing methods, dowsing without any tool, dowsing with L-shaped iron rods, dowsing with coconut and dowsing with a pendulum. An attempt is made to explain principle of working.

II. METHODOLOGY

Searching of water using divine rods or such tools, we call it as dowsing or water witching. The Dowser uses two L-shaped iron rods, coconuts, pendulum or sometimes he /she walks in the field without any tool. The Dowser who walks on the field without any tool /material, sense something of interest and analyses the underground water stream. In case of L-shape iron rods, the Dowsers hold rods parallel and moves in the field. When the rods get deflected, the dowser analyzes and indicate the stream [15].

The dowsing with coconut is done by Dowser with holding a coconut horizontal in hand. The coconut husks removed from it except on the stalk (tip). The Dowser moves in the field. When the Dowsers approach the stream the coconut tip starts moving upward. As soon as the Dowser is on the stream, the coconut will turn vertical, which decodes the stream. The stream is confirmed with a pendulum. On the identified stream the Dowser gives circular motion to the pendulum and after the time the circular motion of pendulum converts into oscillation. These oscillations are along the stream. These methods applied to the known sources of water, such as, river, canal and underground pipelines, gives the same results.

III. RESULTS AND DISCUSSION

The most Dowsers still use the traditional forked Y stick, L-shape iron rods, coconuts, pendulum for searching underground water stream. Many people assume that dowsing is a fake a magnetic trick/12 /. The study of each dowsing technique showed that they work on principles of science. Here four techniques 1) Dowsing without any tool, 2) Dowsing with L-shaped iron rods, 3) Dowsing with coconut and 4) Dowsing with pendulum are explained.

3.1. The Dowsing without any tool:

One of the traditional ways of water dowsing is that the Dowser walks in the field without any tool or material. While walking in the field, the Dowser senses something and analyze the underground water stream. Here the Dowser senses the change in gravitational force, which changes his / her weight. He / she feels normal weight

while walking in the field, but on the stream he / she feels the slight increase in weight. This increase in weight of the Dowser is because of increased gravitational force due steady or moving water [13-14]. The variation in gravitational force is very small, so that variation in weight of person will be very small. The Dowser senses this variation in his /her weight and analyzes the underground water stream. The Fig.1 shows the procedure of dowsing without any tool. The weight W' is greater than weight W . The mass of the person, who walks in the field, will not change. Hence 'm' will be constant at the both positions, away from the stream and on the stream. We have,

$$W = mg \quad \dots\dots\dots(1)$$

W - weight felt by person away from the stream
 g - acceleration due to gravity away from the stream
 m - mass of the person

$$W' = mg' \quad \dots\dots\dots(2)$$

W' - weight felt by person on the stream
 g' - acceleration due to gravity on the stream
 m - mass of the person

Change in weight of a person (ΔW) is

$$\Delta W = W' - W = m(g' - g) \quad \dots\dots\dots(3)$$

$$\text{As } \Delta g = g' - g \quad \dots\dots\dots(4)$$

Where Δg is a change in acceleration due to gravity on the person on the stream.

This increased ' ΔW ' is because of increased ' Δg '.

3.2. The Dowsing with L-shaped iron rods:

The most of the Dowsers uses two L-shaped iron rods for dowsing. The rods are held parallel to each other in his / her hands. When the Dowser walks in the field and approaches the underground water stream, the rods start deflecting. From the deflection the position the stream is decided.

Case I: The Dowser moves towards the stream, near the stream both the rods start turning. The Dowser is on the stream, the rods turn parallel to the stream.

Case II: The Dowser moves along the stream and if the stream width is greater than the distance between two the rods, the rods deflect away from each other. While the stream width is less than the distance between two rods, the rods cross each other. If the stream width and distance between two rods is same, the rods stay parallel to each other. The Fig. 2 shows the various positions of the Dowser with deflection of rods. The deflection of the rods on the stream could be explained on the basis of increased gravitational force. The rods held parallel to each other, will get deflected due to increase in gravitational force. This increase in gravitational force is because of presence of underground water stream [13].

3.3. The Dowsing with coconut:

Coconut dowsing now a day's used by many Dowsers. A coconut, of which husks are removed except on the stalk (tip), is held in the hand of Dowser and walks in the field. As soon as he /she come near the stream, the coconut stalk (tip) starts moving upward. When he / she is on the stream the coconut stalk (tip) becomes vertical. This is possible because of that fact that gravitational force

increases due to presence of steady water or moving water [15]/. The vertical motion of tip of coconut can be explained on the basis of the shape of the coconut. The shape of a coconut is nonsymmetrical because of which the body center of coconut and center of gravity will act at different points. As body center and center of gravity acts at different points, the coconut is unbalanced in horizontal position.. But if the coconut is held vertical, then body center and center of gravity will be in line and the coconut is balanced. The unbalanced horizontal coconut balances because of the increased gravitational force of the stream. This increased gravitational force pulls base side downward while tip of the coconut goes upward. The positions of the coconut are as shown in Fig.3.

3.4. The Dowsing with a pendulum:

The pendulum is used by Dowsers to confirm the underground water stream. A spherical shape body tied to the thread of one to two feet long is used as a pendulum. The Dowser gives circular motion to this pendulum. If the pendulum is on the stream, then circular motion is converted into oscillations and if the pendulum is not on the stream, then circular motion stops. The oscillations of a pendulum and view of the stream are as shown in Fig.4. The transform of circular motion to oscillations could be because of the fact that in circular motion there will be two times increase in gravitational force in one oscillation. This increased gravitational force reduces circular motion into elliptical motion and in turn converts into horizontal oscillations. These oscillations are along the stream and lasts longer. The transform of circular motion to oscillations is because of a maximum gravitational force act on the pendulum due to the motion of water. The dowsing methods explained above are based on scientific phenomenon; the dowsing is not fake or magic. In practice many Dowsers uses these methods, but miss predict the analysis and fail to interpret the stream.

IV. CONCLUSION

These studies of dowsing methods, based on science, are used as an important tool for searching underground water source. The Dowsers should use the scientific predictions then possibility of better results. Many Dowsers use one technique, instead of that, if they use more than one technique then again the results will improve. In case results fail, the technique will not fail, but the Dowser fails to interpret. The dowsing is an important tool for searching underground water stream.

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REFERENCES

- [1] P.George Hansen, Journal of the Society for Psychical Research, Vol 51 (752), 1984, pp-343- 367.
- [2] Barrett, William and Theodore Besterman, The Divining Rod: An Experimental and Psychological Investigation, Kessinger Publishing, Whitefish Montana 2004.
- [3] Carroll, T.Robort, The Skeptic's Dictionary: A Collection of Strange Beliefs, Amusing Deceptions and Dangerous Delusions Wiley, Hoboken, New Jersey, 2003.
- [4] Gardner, Martin Fads and Fallancies, in the name of Science, Dover, New York 1957.
- [5] Hyman, Ray Dowsing, In the Encyclopedia of fine paranormal, edited by G. Stein, Prometheus, Buffalo, New York, 1996, pp 222-233. .
- [6] Vogt Evon and Ray Hyman, Water Witching, USA, Second Edition, University of Chicago Press, Chicago, 2000.
- [7] Carpenter, B.William, On the Influence of suggestion in modifying and Directing Muscular Movement, Independently of Volition, Proceeding of Royal Institution of Great Britain 854 (1) 147-153.
- [8] R. A. Fouikes, Dowsing Experiments, Nature 229, 1991, 163-168.
- [9] Erwin, E. Stiek, A History of Dowsing and Energy Relationship, North Hollywood, CA, BAC, 1978, 4-16.
- [10] T.E Goalsen, "Dowsing" The Eternal Paradox, Psychir, March 1974, 13.
- [11] Raymand, C. Wiley, "Editorial", The American Dowser, 1976, 75.
- [12] B.M. More, Indication of underground water source for drilling of bore wells by some trees, Journal of pure and applied physics, Vol. 1 (1), 2013, pp 1-4.
- [13] B.M. More, the Additional Gravitational Force is Acting on some Trees due to the Presence of Underground Water Stream, International Journal of Agriculture Sciences, Vol.4 (5), 2012, pp-230-232.
- [14] B.M. More, Violation of Newton's Law of Gravitation: Gravitational Force Increases due to motion of Water, World Research Journal of Applied Physics, Vol. 4, Issue 1, 2013, pp. - 51- 53.
- [15] B.M. More, Increase in gravitational force due to the motion of water: explains the science of water dowsing, World Research Journal of Engineering and Technology, Vol. 2 (1), 2013, pp. - 011-013.



Fig.2. The Dowser a) away from the stream: the rods are parallel and b) on the stream: the rods are turned in the direction of the stream



Fig.3. The positions of the coconut away from stream and on the stream

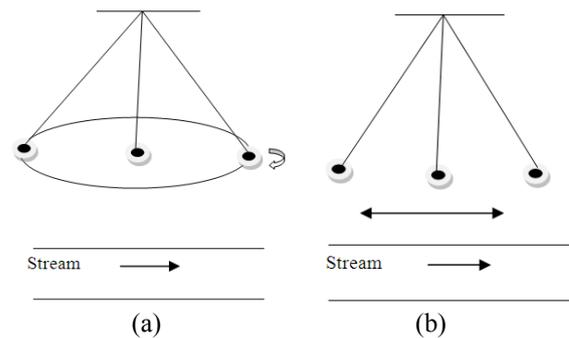


Fig.4. a) The pendulum firstly has given circular motion and b) pendulum's circular motion gradually converts into oscillations along the stream.

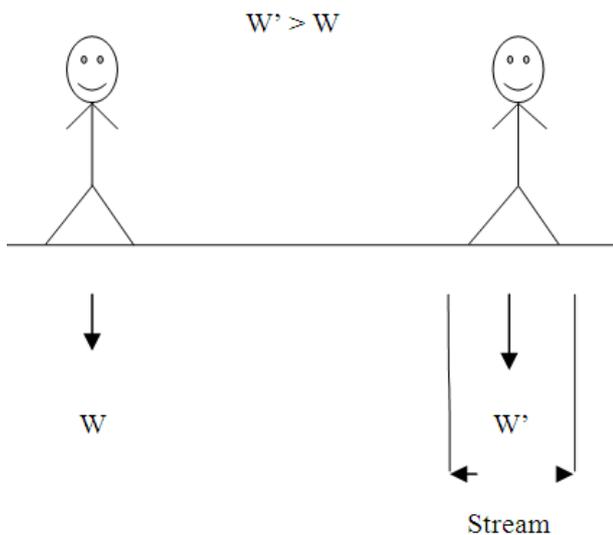


Fig.1. The way of dowsing without any tool. The Dowser's weight, away from the stream (W) is less than on the stream (W')

W- Weight felt by Dowser without a stream
W'- weight felt by Dowser on the stream