

ARMED FORCES OF COLOMBIA
NATIONAL ARMY

Tolemaida, December 10, 2012

Subject: wire circuit detector test results.

Attn.: Mr. Major **FRANCISCO JAVIER HOYOS ARANGO**
Manager of "SEINKO".

With all due respect I submit to Mr. Major, manager of "SEINKO", Test Report of the device - Russia-manufactured wire circuit detector NR-12C, supplied by the Company.

FIELD TESTING.

PROCEDURE

Testing of the device - RUSSIA-manufactured wire circuit detector NR-12C of the Company "STT GROUP", proposed by the Company "SEINKO", were held in Tolemaida (Nilo, Cundinamarca) at 9.00 in the plains and rugged terrain with sparse and abundant vegetation.

RESULTS

1. Test according to the depth of detection: during tests the device has detected a cable of size No. 18, 20 and 22, similar to those used by a competing system to activate the improvised explosive devices (IEDs) at a distance, with efficiency at a depth of 10, 15, 20 and 30 centimeters.



2. Tests in humidity conditions: during tests the device has detected a cable of size No. 20 and 22 immersed into the water to a depth of 30 centimeters.



3. Measurement of the length of detection: during tests the device has detected cables with length from 15 meters.



Duplex cable of size 22



Cord of size 20 (detonating)

4. Detection capacity: during tests the device has detected a cable of size 20 and 22 through hose of ½ inch buried 15 centimeters below the ground. This method is similar to that used by a competing system to activate the charge at a distance using a cable.



CONCLUSION

After conduct in the territory of our country of search procedure of different types of cables (size 18, 20 and 22), similar to those used by a competing system for activation through the control cable of improvised explosive devices (IEDs), we claim that the device:

Fits for its purpose to determine cables of size 18, 20 and 22, which are used by a competitive system on the territory of our country; ease of operation and low weight make it possible to use by motorized units and infantry forces in the regions where the competing system uses control cable.

Can detect cables submerged into water flow or swamp.

Can detect cables in plastic hoses (this method is used by a competing system).

Allows locating and tracing the direction of the cable.

The device is versatile and light weight. Its operation is possible regardless of the height of vegetation. It is easy in use.

Acquisition of a certain number of these devices is recommended in order to equip units associated with IEDs activated by the control cable.

COLONEL MIGUEL FERNANDEZ GONZALEZ
Head of military mine clearance (National Centre for explosives and mines)