

### Requirements for EN 13763 – Explosives for civil uses. Detonators and relays.

No.	EN	Facilities available	Equipment available (list the available equipment)	Know how available	Additional equipment needed	Additional know how needed	Recommendation	Remarks
0.	1.	2.	3.	4.	5.	6.	7.	8.
1.	13763 – 2	Yes	Yes Digital drying stove (heating chamber) Stopwatch Digital thermometer	Yes	No	No	In house	---
2.	13763 – 3	Yes	Yes BAM hammer	Yes	No	No	In house	---
3.	13763 – 4	Yes	Yes - Equipment provided in EN	Yes	No	Training needed to improve the know how.	In house	---
4.	13763 – 5	Yes	Yes - Equipment provided in EN	Yes	No	Training needed to improve the know how.	In house	---
5.	13763 – 6	Yes	Yes - Equipment provided in EN	Yes	No	Training needed to improve the know how.	In house	---
6.	13763 – 7	Yes	Yes - Equipment provided in EN	Yes	No	Training needed to improve the know how.	In house	---

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0.	1.	2.	3.	4.	5.	6.	7.	8.
7.	13763 – 8	See column no. 8	Not at INSEMEX	Yes	Equipment provided in EN	Training needed to improve the know how.	Outsource	Available at U.M. SADU*, or other accredited laboratories
8.	13763 – 9	Yes	Yes - Equipment provided in EN	Yes	No	Training needed to improve the know how.	In house	---
9.	13763 – 11	Yes	Yes - Equipment provided in EN	Yes	No	Training needed to improve the know how.	In house	---
10.	13763 – 12	Yes	Yes - Pressure vessel. - Water tank.	Yes	No	No	In house	---
11.	13763 – 13	Yes	Yes - Electrostatic discharge equipment.	Yes	No	No	In house	---
12.	13763 – 15	Yes	Yes - Digital drying stove (heating chamber) - Digital refrigerator	Yes	Testing equipment with water tat provided at point 5.1 in EN Standard	Training needed to improve the know how.	In house	---
13.	13763 – 16	No	Yes - AICE** - Electronic timer triggered by optical probes type	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$	Training needed to improve the know how.	In house	Modernized climatized test stand available from June 2007

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0.	1.	2.	3.	4.	5.	6.	7.	8.
			EXPLOMET-FO-2000		(climatized test stand)			
14.	13763 – 17	Yes (partial)	Yes - AICE**	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007
15.	13763 – 18	Yes	Yes - AICE**	Yes	No	No	In house	---
16.	13763 – 19	Yes (partial)	Yes - AICE**	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007
17.	13763 – 20	Yes (partial)	Yes - Ohmmeter	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007

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0.	1.	2.	3.	4.	5.	6.	7.	8.
18.	13763 – 21	Yes	Yes - Digital electric source high tension - Ampere meter	Yes	No	No	In house	---
19.	13763 – 22	Yes	Yes	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007
20.	13763 – 23	Yes	Yes - Electronic timer triggered by optical probes type EXPLOMET-FO-2000	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007
21.	13763 – 24	Yes	Yes	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007

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0.	1.	2.	3.	4.	5.	6.	7.	8.
22.	13763 - 25	Yes	Yes - Initiation device	Yes	Improving of test facilities regarding the conditioning at $20^0 \pm 2^0\text{C}$ (climatized test stand)	No	In house	Modernized climatized test stand available from June 2007

\* - U.M. SADU – The Romanian manufacturer for detonators.

\*\* - Complex testing facility for controlled impulse / timer / current input - output.