


## DRAFT REVISED QRs & TDs OF EXPLOSIVE DETECTION KIT

S/N	Parameter	Qualitative Requirement	Trial Directive
01	Physical requirement	(a) Should be portable	To be physically checked by BOO.
		(b) Should be usable in all weather conditions.	Undertaking by the firm to be provided.
		(c) The chemicals should be safe for human use and should not require any special equipment or sterile environment.	To be physically checked by BOO.
		(d) It should contain all types of chemicals in suitable container/non-reactive bottle with suitable material for collection of sample for various groups of explosive.	To be physically checked by BOO.
		(e) The OEM should provide colour code chart.	To be provided by Firm & To be physically checked by BOO.
		(f) Should not pose any risk for technician and the environment.	Undertaking by the firm to be provided.
		(g) Should have fast reaction and quick results facility.	(i) To be physically checked by BOO.  (ii) To be tested with at least 5 samples of explosive (such as TNT, PEK, TATP, PETN, RDX) and the result should match the colour code.  (iii) For testing of TATP the kit should be able to detect traces of Hydrogen Peroxide in the sample.
		(h) Should have a shelf life of minimum 12 months.	Undertaking by the firm to be provided.
		(j) Should have user manual.	To be provided by Firm.








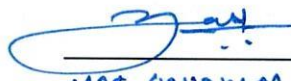


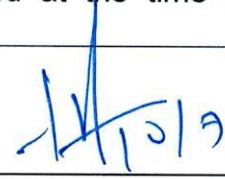


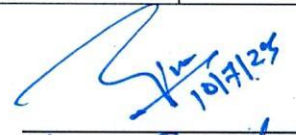



S/N	Parameter	Qualitative Requirement	Trial Directive
02	Detection capability and Technical requirement	(a) Should be capable to detect all type of explosive of various groups before and post explosion.	(i) To be physically checked by BOO.
			(ii) To be checked with at least 4 Different groups of explosive (such as TNT, RDX, PETN, NG) and should be able to identify Poly nitro aromatics, Nitro esters, nitro amines, inorganic nitrate compounds, urea, chlorates, bromides, peroxides, per chlorates and per magnates.
			(iii) To be physically checked by BOO after explosion.
		(b) It should have operating temperature of $-10^{\circ}$ to $+55^{\circ}$ C.	Undertaking by the firm to be provided.
		(c) Should be able to detect Acids e.g. Nitric acid, sulphuric acid, citric acid etc.	To be physically checked by BOO.
		(d) Should be able to detect Bases e.g. Potassium Hydroxide, Sodium Hydroxide etc.	To be physically checked by BOO.
3.	Training	Manufactures should provide training on use of equipment for a specified period of time as decided at the time of acceptance of tender.	To be provided by firm.


  
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