

**TECHNICAL SPECIFICATION OF EXPLOSIVE VAPOR DETECTOR (EVD)**

<b>Sr No</b>	<b>Required specification for Quotations</b>	
1	<b>Technology</b>	IMS /ITMS, Amplifying Florescent polymer (AFP), based detection and identification of Explosives
2	<b>Detection Capability</b>	Should be able to detect all types of explosives viz RDX, TNT, Semtex, PETN, Ammonium Nitrate etc to be demonstrated with explosive samples by vendors.
3	<b>Sensitivity</b>	Detection of Pico-gram quantities of explosives in vapor and particle mode.
4	<b>Selectivity</b>	Should have high discrimination between explosive an non- explosive. False alarm rate not to exceed 10%
5	<b>Sample Collection</b>	Air sample collection of vapor particle and surface wipe of trace particle.
6	<b>Endurance</b>	Capable of continuous operation for not less than 3 hours including continuous vapor sampling.
7	<b>Warm up Time</b>	The equipment should be ready for use in less than 15 minutes
8	<b>Analysis time</b>	Not more than 20 Second
9	<b>Recalibration</b>	Should be ready for re-use With in one minute
10	<b>Power</b>	Should operate on AC mains 220 volts, 50/60 Hz with inside DC battery , battery charger and additional batteries to be provided
11	<b>Alarm &amp; Display</b>	Clear audio/ visual alarm for detection, LCD display on Back lit screen.
12	<b>Temperature</b>	0° C to 40° C
13	<b>Humidity</b>	Should work smoothly in 95% non- condensing condition.
14	<b>Weight &amp; Dimension</b>	Portable, light weight, easy to carry in field operation.
15	<b>Computer capability</b>	Computer Compatible through USB or Blue tooth.
16	<b>Maintenance &amp; Operations</b>	Easy routine maintenance and user friendly operation.
17	<b>Carrying Case</b>	The equipments should be provided with a proper carrying case for easy and safe transportation.
18	<b>Warranty</b>	Warranty – 3 Years. Sufficient spares should be available in stock with the supplier and certificate for available in stock with the supplier and certificate for availability of spares in Chandigarh for at least 7 years after the warranty period.
19	<b>Miscellaneous</b>	The firm should be able to provide the following along with the equipment:- i) Training tools – Charts, slides, training brochures, training work model, blow up diagram, video films on demonstration and use etc. ii) Technical manual giving full description of the item. Practical training at least 4 times in a year continuing during warranty period. iii) User’s handbook and literature on preservation/maintenance as applicable. Procedure for packing, handling, transportation, storage and battery replacement.
20	<b><u>GUARANTEE &amp; AMC</u></b>	1. The bidder shall provide on site comprehensive guarantee for all equipments at least for a period of <b>03 (three) years</b> from the date of final acceptance of the equipment and also provide comprehensive annual maintenance of the entire equipment for all 07 (seven) years after expiry of the guarantee period and what will be the terms and conditions and Annual maintenance cost.  2. The following information is also required: I. Attach Annexure – List of the Institution where your product has been Installed along with satisfaction report of the users. II. Provide Technical Specification of your product brochure.
21	<b><u>Live Demonstration: -</u></b>	As a part of technical evaluation of bids, the bidders shall arrange presentation and live demonstration of their quoted equipments/items within a period of 7 to 10 days from the opening of technical bids to show that they fully conform to this quotation. The bidders will be intimated the exact date and time slot for them to carry out such demonstration. The bidders are advised to make all necessary arrangements for the live demonstration of their equipments well in advance as they will be required to adhere to the time schedule given to them soon after bid opening/ technical bid evaluation.

**Note:- Purchase committee can relax any specification with the approval of competent Authority in Government interest.**