No. IV-17018/3/07-Prov-I 29 42

भारत सरकार/Government of India

गृह मंत्रालय/Ministry of Home Affairs

पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division

संभरण-I डेस्क/Prov.I Desk

26, Man Singh Road, Jaisalmer House, New Delhi, the 3th December, 2015.

To,

DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject: Revised QRs and Trial Directives for Explosive Detector.

The QRs and Trial Directives in respect of Explosive Detector as per the Annex-I and Annex-II respectively have been accepted by the Competent Authority in MHA.

- 2. Henceforth, all the CAPFs should procure the above item required by them strictly as per revised laid down Technical Specifications/QRs.
- 3. Concerned CAPF will be accountable for correctness of the QRs/Trial Directives.
- 4. MHA letter of even number dated 05-03-2008 is rescinded.

Yours faithfully,

(M. N. Sukole)

Under Secretary (Prov-I)

Encl.: As above.

Copy to SO(IT), MHA: with the request to host the revised QRs and Trial Directives of Explosive Detector on the MHA website (under the page of Organizational Set up-Police Modernization Division-Qualitative Requirements-QRs-bdds.html), soft copy being sent through email.

(M. N. Sukole) Under Secretary (Prov-I)

Copy to : DDG(Procurement), MHA.

Ser No	Parameters	QRs QRs		
1.	General. Explosive de	lection is a non-destructive inspection process to determine whether		
		iner contains explosive material. Explosive detection is commonly		
	at airports, ports and fo			
OPE	RATIONAL CHARACTE			
2.	Sensitivity	The detector should be able to detect all types of organic ar		
		inorganic explosives in vapors, liquid, powder, particle and mixture form at varying temperature without touching the		
		suspected item.		
3.	<u>Selectivity</u>	System should not respond to odor of non-explosive substances.		
4.	<u>Specificity</u>	False alarm rate should be less than 5%.		
5.	Carrier Gas	Detector system should not require the use of carrier gas. The		
		equipment should also not require any consumables for		
	-	detection.		
<u>6.</u>	Auto Calibration	Adjustment/Resetting for further operations should be automatic.		
7.	Warm Up Time	Should be less than 15 seconds.		
8.	Analysis Time	Should be less than 30 seconds.		
9.	Electromagnetic	Operations should not be affected by electromagnetic		
10	Interference	interference of other electronic/magnetic devices. (a) Minimum – Minus 10 degrees C.		
10.	Operating Temperature	(a) Minimum – Minus 10 degrees C.		
	Temperature	(b) Maximum – Plus 55 degrees C.		
		(b) Maximum Flue de degrees e.		
		(c) Humidity – Up to 95% non-condensing.		
11.	Indication	Equipment should give out both visual and audio alarm signal.		
	ICAL CHARACTERISTI			
12.	Versatility	Equipment should be rugged for military use and should be able		
		to function correctly in all weather conditions prevalent in India.		
13.	Ease of Operations	Results given by the detector/equipment should be self		
		explanatory and should not require any reference.		
14.	Display	(a) Equipment should have a full coloured LED/LCD display.		
		(b) Clear display with touch screen.		
		(c) Equipment should display following details:-		
		(i) Type of explosive on detection.		
		(ii) System on/off. (iii) Status of system calibration.		
ĺ	•	(iv) System battery status.		
	•	(v) Mode of detection.		
-		(vi) Any other function of the equipment.		
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Ser No	Parameters	QRs		
15.	Data Transfer	Equipment should have USB port/Bluetooth for data transfer.		
16.	Power Supply	(a) It should operate on AC/DC supply.		
		(b) Battery Endurance – Minimum 4 hours.		
		(c) Lithium Ion Battery with minimum 2 yrs life and 500 cycle.		
17.	Portability	(a) Equipment should be one man portable.		
		(b) It should fit into one hand carrying case.		
		(c) Weight – Maximum operating weight 2 Kgs.		
18. Safety (a) The equipment should be safe to handle.				
		(b) Should be free from any kind of radiation hazard to the		
		operator.		
		(c) Laser output of the equipment should not activate/detonate the		
		IED.		
19.	<u>Database</u>	System database/library of explosives should be upgradable and		
		extendable at the user level.		
20.	Carrying Case	Should be hard, strong, rugged, light weight and water proof.		
21.	Carrying Case (while	(a) Case should be ultra-light.		
	operating)	(b) It should have provision for carrying accessories and		
		consumables.		
		(c) It should have provision for wearing by the operator.		
00	0	(d) Should be water proof.		
22.	Spares and Service	(a) Carrying Case – One per equipment.(b) Carrying Case (for operations) – One per equipment.		
		(d) Test Samples – Nos to be specified by the users at the time of tendering.		
		(e) Spare Battery – Nos to be specified by the user at the time of		
		tendering.		
		(f) User Hand Book (English) – One per equipment		
		(g) Tech Service Manual (English) – One per equipment		
		(h) Manufacturers List of Recommended Spares duly priced.		
23.	Training	One week of in-situ training to be carried out by the OEM.		
20.	Hanning	Offic week of its old training to be same a say and a		

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(RAVI RANJAM)
Deputy Commandant. TEP
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Annexuse-II of MHA U.O. No. IV-17018/3/07-Prov-I dated (565)

TRIAL DIRECTIVES FOR EXPLOSIVE DETECTOR

		Martin Control of Cont		
		QRs	Trial Directives	
Ser	Parameters			
No		to true live inspection process to determine whether a container contains explosive material. Explosive		
1.	General. Explosive detection is a non-destructive inspection process to determine whether a container contains explosive material. Explodetection is commonly used at airports, ports and for border control.			
	detection is commonly used	at airports, ports and for border control.		
PEF	RATIONAL CHARACTERIST	ICS	To be physically checked by the BOO. Minimum 10 samples of	
2.	Sensitivity	The detector should be able to detect all types of organic and inorganic explosives in vapors, liquid, powder, particle and mixture form at varying temperature without touching the suspected item.	briefcase, carton box, bag etc) and detected separately. The container should be closed. Each sample inside the container to be checked with the explosive detector separately. Samples to include swiped, contained, powdered, spilled and liquid. Samples to be checked/detected at varying temperatures. The detector should be able to detect all types of explosives.	
3.	Selectivity	System should not respond to odor of non-explosive substances.	these samples should be checked with the explosive detector. The detector should not respond to non-explosive substances.	
4.	Specificity	False alarm rate should be less than 5%.	To be physically checked by the BOO. Explosive and non-explosive samples to be placed inside different containers separately an should be checked with the detector. The false alarm rate should be less than 5%.	
5.	Carrier Gas	Detector system should not require the use of carrier gas. The equipment should also not require any consumables for detection.	e-mail address & website of the lab. Authenticity of the certifical must be confirmed by the BOO.	
6.	Auto Calibration	Adjustment/Resetting for further operation should be automatic.	To be physically checked by the BOO. To be physically checked by the BOO. The same should be time	
7	. Warm Up Time	Should be less than 15 seconds.	using a stopwatch	
	(a)	la Sp.		

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TRIAL DIRECTIVES FOR EXPLOSIVE DETECTOR (Contd....)

No No	Parameters	QRs	Trial Directives
8.	Analysis Time	Should be less than 30 seconds.	To be physically checked by the BOO. The same should be timed using a stopwatch.
	Electromagnetic Interference	Operations should not be affected by electromagnetic interference of other electronic/magnetic devices.	OEM to provide certificate from NABL/international accredite lab. OEM to provide contact person details, phone number address, e-mail address & website of the lab. Authenticity certificate must be confirmed by the BOO.
10.	Operating Temperature	 (a) Minimum – Minus 10 degrees C. (b) Maximum – Plus 55 degrees C. (c) Humidity – Up to 95% non-condensing. 	OEM to provide certificate from NABL/international accredite lab. OEM to provide contact person details, phone number address, e-mail address & website of the lab. Authenticity certificate must be confirmed by the BOO.
11.	<u>Indication</u>	Equipment should give out both visual and audio alarm signal.	To be physically checked by the BOO.
PHYSI	CAL CHARACTERIST	ICS	
	<u>Versatility</u>	Equipment should be rugged for military use and should be able to function correctly in all weather conditions prevalent in India.	To be physically checked by the BOO. OEM to provide certificate from NABL/international accredited lab. OEM provide contact person details, phone number, address e-mail address & website of the lab. Authenticity of certifications and the confirmed by the BOO.
13.	Ease of Operations	Results given by the detector/equipment should be self explanatory and should not require any reference.	must be confirmed by the BOO. To be physically checked by the BOO.
		explanatory and should not require any reference.	To be physically checked by the BOO.

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TRIAL DIRECTIVES FOR EXPLOSIVE DETECTOR (Contd....)

		QRs	Trial Directives
Ser	Parameters	QIV5	
No		(a) Equipment should have a full coloured LED/LCD	To be physically checked by the BOO.
14.	<u>Display</u>		, , , , , , , , , , , , , , , , , , , ,
		display. (b) Clear display with touch screen.	
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	(c) Equipment should display following details:- (i) Type of explosive on detection.		
			·
		(iv) System battery status. (v) Mode of detection.	
		(v) Mode of detection.(vi) Any other function of the equipment.	
		Equipment should have USB port/Bluetooth for data	To be physically checked by the BOO.
15.	Data Transfer	transfer.	,
		(a) It should operate on AC/DC supply.	To be physically checked by the BOO. OEM to provide
16.	Power Supply	(b) Battery Endurance – Minimum 4 hours.	certificate from NABL/international accredited lab. OEM to
		(c) Lithium Ion Battery with minimum 2 yrs life and	
		500 cycle.	mail address & website of the lab. Authenticity of certificate
		300 Gydic.	must be confirmed by the BOO.
	D. 4-Lilifu	(a) Equipment should be one man portable.	To be physically checked by the BOO.
17.	<u>Portability</u>	(b) It should fit into one hand carrying case.	
		(c) Weight – Maximum operating weight 2 Kgs.	
40	Cafaty	(a) The equipment should be safe to handle.	OEM to provide certificate from NABL/international
18.	Safety	(b) Should be free from any kind of radiation hazard	accredited lab. OEM to provide contact person details,
		to the operator.	phone number, address, e-mail address & website of the
		(c) Laser output of the equipment should no	t lab. Authenticity of certificate must be confirmed by the
		activate/detonate the IED.	BOO.
19	Database	System database/library of explosives should be	To be physically checked by the BOO.
13	Databass	upgradable and extendable at the user level.	

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TRIAL DIRECTIVES FOR EXPLOSIVE DETECTOR (Contd....)

Ser	Parameters	QRs	Trial Directives
No			mai Directives
20.	Carrying Case	Should be hard, strong, rugged, light weight and water proof.	To be physically checked by the BOO.
21.	Carrying Case (while operating)	 (a) Case should be ultra-light. (b) It should have provision for carrying accessories and consumables. (c) It should have provision for wearing by the operator. (d) Should be water proof. 	To be physically checked by the BOO.
22.	Spares and Service	 (a) Carrying Case – One per equipment. (b) Carrying Case (for operations) – One per equipment. (c) Battery Charger – One per equipment. (d) Test Samples – Nos to be specified by the users at the time of tendering. (e) Spare Battery – Nos to be specified by the user at the time of tendering. (f) User Hand Book (English) – One per equipment (g) Tech Service Manual (English) – One per equipment (h) Manufacturers List of Recommended Spares duly priced. 	OEM to be provide certificate and the same will be checked by the BOO.
23.	Training	One week of in-situ training to be carried out by the OEM.	OEM to be provide certificate and the same will be checked by the BOO.

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25th Bd. JSB, Ghitomi

Pohiram Kinhaj,

(MUJ NIROWODN. EK)

JANJAY IMPRIMA BPRED (SO(11))

Maj Ashim Mohanty

APPROVED / NOT APPROVED

(RC Tayal) DG, NSG