

No. IV-21011/39/2009-Prov.I
भारत सरकार/Government of India
गृह मंत्रालय/Ministry of Home Affairs
पुलिस आधुनिकीकरण प्रभाग/PM Division
संभरण-I डेस्क/Prov. I Desk

26, Man Singh Road, Jaisalmer House
New Delhi, Dated 12th September, 2013

To,

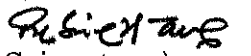
DsG : AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject : Trial Directives of Chemical Protection Suit with Face/Gas Mask.

The Trial Directives in respect of Trial Directives of Chemical Protection Suit with Face/Gas Mask as per the Annexure have been accepted by the Competent Authority in MHA


2. Henceforth, all the CAPFs should trial evaluate the above items strictly as per the laid down Trial Directive and Technical Specifications/QRs issued vide letter of even number dated 12-10-2009 and 30-11-2009.

Yours faithfully,


(P K Srivastava)
Under Secretary(Prov.I)
Tel : 23381278

Copy forwarded to

SO(IT), MHA – with the request to host the Trial Directives (soft copy being sent through email) on the MHA website (under the page organisational set up – Police Modernisation Division- Qualitative Requirements) alongwith QRs for Chemical Protection Suit with Face/Gas Mask


(R K Soni)
Section Officer (Prov.I)

Copy to - DDG(Procurement), MHA.









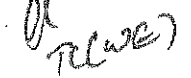


Copy for information to : PS to JS (PM)

TRIAL DIRECTIVES OF CHEMICAL PROTECTION SUIT WITH FACE/GAS MASK

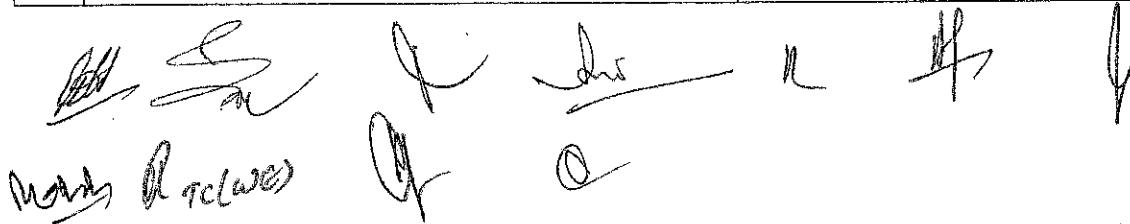
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Ser No.	QR of Chemical Protection Suit	Trial Directives	Remarks
1.	The suit to be Gas Tight. The suit to provide protection against normal hazardous chemicals and against all types of biological and warfare gases (CW agents).	Verification of Fabric Datasheet from manufacturer + Filter Datasheet + suit Manufacturer certificate/datasheet. (Suit may be tested by DRDO, Gwalior or CQAE (FFE), Pune or any other National/International accredited lab and the cost of this testing to be borne by the firm providing the equipment)	
2.	The Suit will be fully encapsulating type 1/level A gas tight suit covering both the wearer and the breathing apparatus.	Visual check by BOO.	
3.	It should have an inbuilt breathing apparatus run on rechargeable batteries. It should work continuously for min 3 hrs.	Visual check by BOO + running battery for 3 hrs testing. Verification of manufacturer catalog & manual. To be checked by BOO.	
4.	The suit also to have extra connection for supplementary air and ventilation.	Visual Check by BOO..	
5.	The suit to be made up of Polyamide Fabric Tychem TK or equivalent. The material be high visibility fluorescent colour.	Visual check & Manufacturer certificate verification by BOO.	
6.	The zip should be heavy duty Gas Tight Zip closing for easy wearing. It should be surrounded by double outer storm flaps with a Velcro closer.	Visual check & Manufacturer certificate verification .by BOO.	
7.	All seams to be sealed both from inside and outside.	Visual check & Manufacturer certificate verification by BOO.	

[Handwritten signatures and initials]

Ser No	QR of Chemical Protection Suit	Trial Directives	Remarks
8.	The gloves to be lined gloves (Outer gloves with inner lining compatible with the material, with outer layer of Neoprene for extra protection. The gloves to be fitted by mean locking cuff mechanism, 2 Spare Pairs of Gloves shall be supplied with each suit.	Visual check & Manufacturer certificate verification + verification of certificate for boots. To be checked by BOO.	
9.	The boots to be permanently sealed to the suit. The boots to be highly chemically resistant "HAZMAX" Safety boots with steel toecap and mid sole. The main features of boot include :- (a) 200 Joule Steel Toecap. (b) Cleated Slip Resistant Sole. (c) Injection moulded seamless construction. (d) Non absorbent polyester lining. (e) Kick off lug for easy removal. (f) Energy absorbing 'Tunnel System'. (g) Stainless steel midsole. (h) Cleated, Oil Resistant Rubber Outsole for superior grip. (i) Hygro exothermic insole for maximum wearer comfort. (k) Antistatic.	Visual check & Manufacturer certificate verification + verification of certificate for boots. To be checked by BOO.	
10.	The visor to be double glazed permitting clear undistorted vision that will withstand chemical permeation for the substances listed in the European standard EN 464:1994 for more than 480 minutes : the mechanical strength of the visor to conform to EN 146:1991. The visor to be chemical and impact resistant. The visor to provide a wide view of vision.	Visual check & Manufacturer certificate verification + verification of certificate for visor. To be checked by BOO.	
11.	The suit to be supplied with adjustable internal support belt to enable wearers of varying size to comfortably use the suit	Visual Check by BOO.	



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Ser No	QR of Chemical Protection Suit	Trial Directives	Remarks
12.	The suit to be fitted with a Ventilation/cooling system. The air for this to be supplied by in battery operated breathing unit fitted in the suit. The suit to be fitted with an indicator to indicate contamination of canister and low battery.	Visual Check by BOO..	
13.	The suit should be available with a dehydration water bag, charger for charging rechargeable batteries, one set of spare batteries.	Visual Check by BOO.	
14.	The suit should be available with JFR 85 filter with one spare set.	Visual check + verification of JFR certificate/Datasheet from manufacturer. To be checked by BOO.	
15.	The suit to be available in S/M/L/XL size depending on the order.	Size supplied to be physically checked by BOO.	
16.	The suit to be light in weight & comfortable to wear.	Wearer to wear the suit and operate in different positions for checking comfort while operating. To be verified / checked by BOO.	
17.	Each suit to be supplied in a suitable rigid carry case to store it when not in use and should have shelf life of minimum five years.	To be physically checked by BOO. Certificate for shelf life to be provided by the OEM/ Firm.	
18.	The suit to comply with EN 464: 1994 for emergency terms (ET). All garments will be tested for leak tightness (internal pressure test) according to EN 464: 1994.	Verification of CE Certificate of the suit by BOO. Suit to be tested by DRDO, Gwalior or CQAE (FFE), Pune or any other National/International accredited lab and the cost of this testing to be borne by the firm providing the equipment)	
19.	Operation/ Maintenance Manual to be supplied with each suit.	To be checked by BOO.	

Abraham

18/04/13
P S KARRI
DTCION

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Arvind

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18/4/13
(Abhishek Ranjan)
DC, CRPF

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Arvind Ranjan
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RS BHADOURIA
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APPROVED / NOT APPROVED

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(Arvind Ranjan)
Director General, NSG