

ज्ञापांक.....4233...../आपूर्ति

95-1-24-2013

पुलिस महानिदेशक का कार्यालय, बिहार, पटना।

पटना,दिनांक- 10-8-16

सेवा में,

निदेशक,
सूचना एवं जनसम्पर्क विभाग,
बिहार, पटना।

विषय- निविदा आमंत्रण सूचना सं०-25/2016-17 (पी०आर० नं०-4509, दिनांक-25.07.16) को संशोधित करने की सूचना प्रकाशन करने के संबंध में।

निदेशानुसार उपर्युक्त वर्णित विषय के संबंध में कहना है कि निविदा आमंत्रण सूचना सं०-25/2016-17 (पी०आर० नं०-4509, दिनांक-25.07.16) को संशोधित करने से संबंधित सूचना की पॉच प्रतियाँ (सी०डी० सहित) संलग्न करते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी०आर०डी० वेबसाइट पर भी प्रसारित करने की कृपा की जाय।

इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

अनु०-यथोपरि।

[Handwritten Signature]
10/8/16

पुलिस महानिरीक्षक के सहायक (क्यू०),
बिहार, पटना।

प्रतिलिपि:-

1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय।

शुद्धि-पत्र

बिहार पुलिस मुख्यालय, पटना के निविदा आमंत्रण सूचना सं०-25/2016-17 (Advertisement ID-4509, Dated-25-07-2016) EOD Bomb Suit एवं Bomb Basket/ Container के क्रय हेतु प्रकाशित Specification को रद्द किया जाता है तथा उसके स्थान पर MHA का Specification प्रकाशित किया जाता है। शेष यथावत रहेगा। प्रकाशित निविदा को इस हद तक संशोधित समझा जाय।



पुलिस महानिरीक्षक के सहायक (क्यू),
बिहार, पटना।

1307

No. IV-17018/03/2007-Prov.I 1584
Government of India/भारत सरकार
Ministry of Home Affairs/गृह मंत्रालय
Police Modernization Division/पुलिस आधुनिकीकरण प्रभाग
Prov.I Desk/संभरण-I डेस्क

Jaisalmer House, 26, Mansingh Road,
New Delhi, the 14 August, 2015

To.

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

Subject : Revised Qualitative Requirements (QRs) and Trial Directives (TDs) in respect of Bomb Suit.

Sir,

The revised Qualitative Requirements(QRs) and Trial Directives(TDs) in respect of Bomb Suit as per Annex-I and Annex-II respectively have been accepted by the Competent Authority in MHA.

2. Henceforth, all the of CAPFs should procure the above items required by them strictly as per laid down Technical Specifications/QRs.
3. Concerned CAPF will be accountable for correctness of the QRs/TDs

Encl: as above

Yours faithfully,

(Mandhar N. Sakole)

Under Secretary to the Govt. of India

Copy to :

✓ SO (IT), MHA - with the request to host the revised QRs/TDs of Bomb Suit on the website of MHA (under the page organizational Set up - Police Modernization Division- Qualitative Requirement - BDDS Equipments). soft copy being sent through email.

(R. K. Soni)







Section Officer (Prov-I)

Copy to: DDG (Procurement), MHA.

REVISED QRs : BOMB SUIT

2592

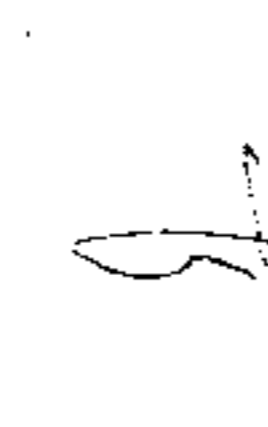








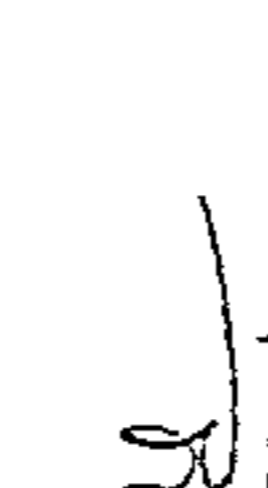
Seri No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
1.	The suit should consist of the following items, which collectively make a complete garment :- (a) Jacket with collar	The suit should consist of the following items, which collectively make a complete garment :- (a) Jacket with collar, Chest and Groin Plates.	No Change
	(b) Trousers-adjustable.	(b) Trousers- adjustable, and Back Protector.	Chest & groin plates are added to avoid any ambiguity.
	(c) Boot protector/Over shoes.	(c) Boot protector/Over shoes.	Back protector is added to avoid any ambiguity.
	(d) Helmet with Visor.	(d) Helmet with EOD and Breathing Apparatus (BA) Visors.	No Change
	(e) Hand Gloves.	(e) Hand Gloves.	EOD & BA visors are critical and are required depending on the scenario(threat)
	(f) Transit bag.	(f) Transit bag.	No Change
	(g) Complete Cooling Suit.	(g) Integrated Groin Protector (IGP).	No Change
		(h) Hydration bag.	Important items which were left out.
		(i) Complete Cooling Suit.	No Change

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REVISED QRs : BOMB SUIT (Contd....)

Ser No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
2(a).	The suit protection performance figures should be for the Stanag 17 grain NATO fragment simulator type V-0 (Firm to submit lab test report from International reputed Lab) :- (i) Front Chest – 1600 M/Sec or better. (ii) Front Groin – 1600 M/Sec or better.	The suit protection performance figures should be for the NATO Stanag 2920 or MIL Standard 662F, 17 grain fragment simulator- V-0 (Firm to submit lab test report from National/International accredited Lab):- (i) Front Chest – 1800 M/Sec or better. (ii) Front Groin – 1800 M/Sec or better.	The parameters are changed due to technological advancements.
2(b).	The suit protection performance figures should be for the Stanag 17 grain NATO fragment simulator type V-50 (Firm to submit lab test report from International reputed Lab) :- (i) Sleeves Front – 560 M/Sec or better. (ii) Collar Front - 850 M/Sec or better. (iii) Trousers Front Thighs – 690 M/Sec or better. (iv) Trousers Front Shins – 620 M/Sec or better. (v) Boot Cover – 450 M/Sec or better.	The suit protection performance figures should be for the NATO Stanag 2920 or MIL Standard 662F, 17 grain fragment simulator- V-50 (Firm to submit lab test report from National/International accredited Lab):- (i) Sleeves Front – 560 M/Sec or better. (ii) Collar Front - 850 M/Sec or better. (iii) Trousers Front Thighs – 690 M/Sec or better. (iv) Trousers Front Shins – 620 M/Sec or better. (v) Boot Cover – 450 M/Sec or better.	


















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REVISED QRs : BOMB SUIT (Contd....)

Ser No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
	3.	<p>Cooling Suit.</p> <p>(a) The Fabric should be washable.</p> <p>(b) The heat removal rate should be at least 270 watt (full suit) or better (Firm to submit lab test report from International reputed Lab).</p> <p>(c) Should enable the operator to wear it comfortably for minimum of 30 minutes with ambient temperature at 35° C or more.</p> <p>(d) The pump should be operable by a Dry/rechargeable battery.</p> <p>(e) Dry/rechargeable battery. Should be available in different sizes to suit users requirement.</p> <p>(f) A second water/ice bottle should be supplied for stand by.</p> <p>(g) The cooling source should be ice and water.</p>	

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REVISED QRs : BOMB SUIT (Contd....)

Ser No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
4.	<p><u>Ballistic EOD Helmet Protection performance</u> (Firm to submit lab test report from International reputed Lab).</p> <p>(a) V 50 (helmet) 600 M/Sec or better.</p> <p>(b) V 50 (visor) 700 M/Sec or better.</p> <p>(c) Weight with visor not more than 7 Kgs.</p> <p>(d) The system should have an arrangement for breathing in an NBC environment.</p> <p>(e) <u>Ventilation and Demisting.</u> A helmet mount fan should provide effective ventilation and demisting with control unit within easy reach of the user.</p>	<p><u>Ballistic EOD Helmet Protection performance</u> (Firm to submit lab test report from International reputed Lab).</p> <p>(a) V 50 (helmet) 600 M/Sec or better.</p> <p>(b) V 50 EOD & BA (visor) 700 M/Sec or better.</p> <p>(c) Weight with EOD & BA visors not more than 8.50 Kgs</p> <p>(d) The system should have an arrangement to accommodate full face mask inside the visor for breathing in an NBC environment.</p> <p>(e) <u>Ventilation and Demisting</u> : A helmet mount fan should provide effective ventilation and replaceable demisting arrangement with control unit within easy reach of the user.</p>	<p>No Change</p> <p>Protection of Bomb Tech in NBC environment BA visors is essential.</p> <p>Weight will increase after including EOD & BA visors.</p> <p>QR changed to remove ambiguity and easy interpretation for trials.</p> <p>The demisting arrangement should be replaceable so that it can be removed when not required i.e during summers.</p>

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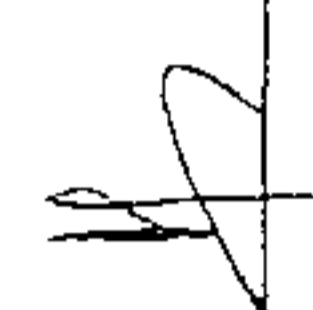

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REVISED QRs : BOMB SUIT (Contd....)

(46)

Ser No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
(f)	The helmet should have built in microphone for operator to hear all the conversation taking place in the vicinity.	<u>Environmental Awareness.</u> The helmet should have built in microphone for operator to hear all the conversation taking place in the vicinity.	Heading of QR changed to avoid any ambiguity.
(g)	<u>Two way Communication.</u> It should provide a two way communication whether on radio or on wire between operator and officer in charge upto a distance of 100 meters.	<u>Two way Communication.</u> It should provide a two way communication whether on radio or wired between operator and officer in charge upto a distance of 100 meters. (Wired communication being optional depending on user requirements)	Option for using either radio or wire will be selected by user units.
(h)	<u>Search Light.</u> The helmet must be fitted with a search light for working in dark condition.	<u>Search Light.</u> The helmet must be fitted with a search light mounted on the visor for working in dark conditions.	QR changed to avoid any ambiguity.
(i)		<u>Live Video Camera:</u> Helmet must have a integrated facility into its visor for Live Video transmission to a command post located at a distance of 200 mtrs LOS and 100 mtrs in BUA. (Non line of sight)	Additional features required due to advancement of technology and latest market trends for efficient operation by bomb techs.
(k)		The system must have voice activated, hands free controls of electronic features including light, audio levels, ventilation and demisting. However, these electronic features should also be operated through a separate console ergonomically located on suit.	

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REVISED QRs : BOMB SUIT (Contd....)

Set No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
5.	<u>Jacket</u>		
	(a)	Immediate removal/quick release of the jacket should be achieved.	No Change QRs amended to avoid any ambiguity
	(b)	The jacket should have pouches for keeping working tools. (Desirable).	
(c)	All soft ballistic pouches must be removable in order to maintain outer shell.		
6.	<u>Trousers</u>		
	(a)	The trousers should be adjustable catering for different sizes.	No Change QR added being important for ease of ops by bomb tech.
	(b)	Immediate removable/quick release of the trouser should be achieved.	
	(c)	Back protector should be fitted to the trouser.	
(d)	Trouser boot should be adjustable and also removable.		

QR [Signature]

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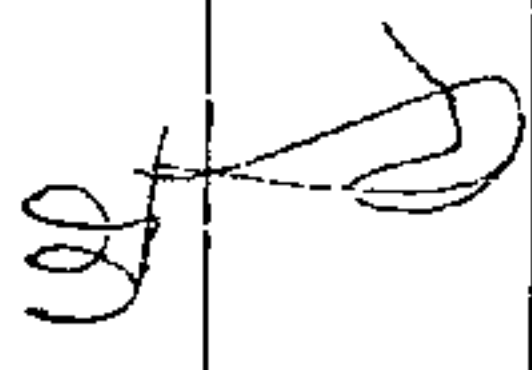
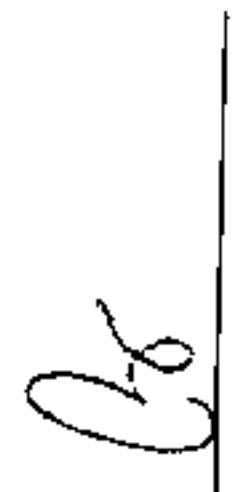






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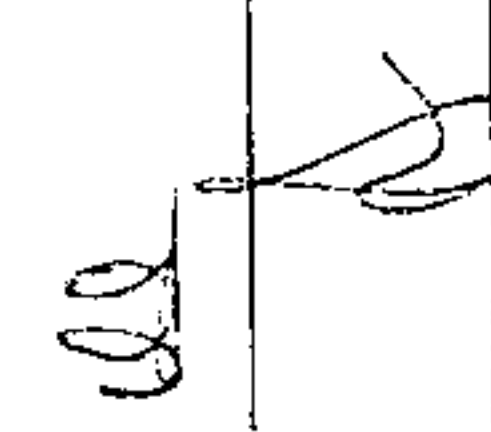



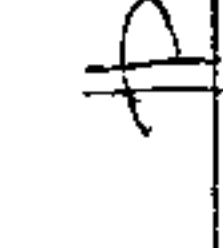
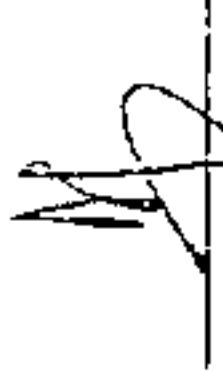
REVISED QRs : BOMB SUIT (Contd....)

Set No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
7.	Power Pack.	Power Pack.	QR added being important for ease of ops by bomb tech.
	(a) A rechargeable or alkaline power pack which should be suitably placed.	(a) A rechargeable power pack should be suitably placed.	
	(b) The power pack should have battery status indicator.	(b) It should have battery level indicator.	
8.	(c) Recharging. Mains charger should be provided for rechargeable power pack, if applicable.	(c) Recharging. A suitable charger should be provided for rechargeable power pack.	QR amended to avoid any ambiguity.
	Weight.	Weight.	
	(a) The complete weight of the suit along with complete accessories should not exceed 33 Kgs.	(a)	
9.	(b) Over all operating weight including helmet, cooling suit, complete suit and communication support etc should not exceed 41 Kgs.	(b) Over all operating weight including helmet, cooling suit, complete suit, communication support and live audio video system etc should not exceed 50 Kgs.	QR amended to avoid any ambiguity.
	Back Bone Protection. The suit should provide a high impact back bone protection arrangement (Firm to submit lab test report from International reputed Lab).	Back Bone Protection. The suit should provide a high impact back bone protection arrangement (Firm to submit lab test report from National/International accredited Lab).	
10.	Operational Time. The suit should take no more than 10 minutes to wear with the help of a trained technician (Desirable)	Operational Time. It should not take more than 10 minutes to wear the suit with all accessories, when assisted by a trained technician.	QR amended to avoid any ambiguity.

REVISED QRs : BOMB SUIT (Contd....)

Ser No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
11.	<p><u>Static Discharge.</u> The bomb suit should have protection against static charge.</p>	<p><u>Static Discharge.</u> The bomb suit should have protection against static charge.</p>	No Change
12.	<p><u>Miscellaneous.</u> (User to specify as per requirement). The firm should be able to provide the following, as applicable, along with the equipment :-</p>	<p><u>Miscellaneous.</u> (User to specify as per requirement). The firm should be able to provide the following as applicable, along with the equipment:-</p>	No Change
(a)	Cleaning kit.	(a) Sets of all kinds of spare rechargeable batteries used in suit, cleaning kit.	
(b)	SMT (Special Maintenance Tools), if any.	(b) SMT (Special Maintenance Tools), if any	Operational requirement.
(c)	Training aids – charts, slides, training brochure, training work model, blow up diagram, video films etc, if any.	(c) Training aids – charts, slides, training brochure, training work model, blow up diagram, video films etc, if any.	
(d)	Physical training in India.	(d) Physical training in India.	
(e)	Proof schedule to include details of testing and acceptance criteria.	(e) Proof schedule to include details of inspection and acceptance criteria.	
(f)	Technical Manual in English giving full description of the item.	(f) Technical Manual in English giving full description of the item.	
(g)	User Hand Book in English.	(g) User Hand Book in English.	No Change
(h)	Literature on preservation/maintenance in English.	(h) Literature on preservation/maintenance in English.	No Change
(i)	Specification for packing, handling/transportation/storage.	(i) Specification for packing, handling/transportation/storage.	No Change
(k)	Details regarding periodical inspection by the user.	(k) Details regarding periodical inspection by the user.	No Change

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REVISED QRs : BOMB SUIT (Contd....)

Ser No	MHA Approved QRs of Bomb Suit	Revised QRs of Bomb Suit	Remarks
13.	<p><i>Devi</i></p> <p><i>(S. Lakshmi)</i> ASST DIR (CSO)</p> <p><i>(S. Lakshmi)</i> MAJ H PRADHAN BD UNIT, NSG</p> <p><i>(S. Lakshmi)</i> DC (Adm), AP</p>	<p><i>(S. Lakshmi)</i></p> <p><i>(S. Lakshmi)</i> Subram AC MSP</p> <p><i>(S. Lakshmi)</i> PRABHAKAR (HARJINDER KUMAR) DC BSG</p> <p><i>(S. Lakshmi)</i> MAJ H PRADHAN BD UNIT, NSG</p> <p><i>(S. Lakshmi)</i> DC, CRPF</p>	<p>QR added to avoid any ambiguity.</p>

(S. Lakshmi)
MAJ H PRADHAN
BD UNIT, NSG

(S. Lakshmi)
DC, CRPF

(S. Lakshmi)
Subram AC MSP

(S. Lakshmi)
PRABHAKAR
(HARJINDER KUMAR)
DC BSG

(S. Lakshmi)
DC, CRPF

(S. Lakshmi)
Subram AC MSP

(S. Lakshmi)
MAJ H PRADHAN
BD UNIT, NSG

(S. Lakshmi)
DC, CRPF





APPROVED / NOT APPROVED


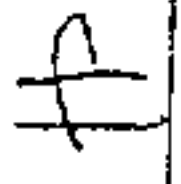


(R.C. Taylor)
DG, NSG

Annex-II
10/10

TRIAL DIRECTIVES : BOMB SUIT

S. No	Revised QRs parameter	Trial Directives
1.	<p>The suit should consist of the following items, which collectively make a complete garment:-</p> <ul style="list-style-type: none"> (a) Jacket with collar, Chest and Groin Plates. (b) Trousers- adjustable and Back Protector. (c) Boot protector/Over shoes. (d) Helmet with EOD and Breathing Apparatus (BA) Visors (e) Hand Gloves (f) Transit bag. (g) Integrated Groin Protector (IGP). (h) Hydration bag. (i) Complete Cooling Suit. 	<p>To be checked physically by BOO.</p>
2(a).	<p>The suit protection performance figures should be for the NATO Stanag 2920 or MIL Standard 662F, 17 grain fragment simulator- V-0 (Firm to submit lab test report from National/International accredited Lab):-</p> <ul style="list-style-type: none"> (i) Front Chest – 1900 M/Sec or better (ii) Front Groin – 1600 M/Sec or better. 	<p>Firm/OEM to provide National/International accredited lab certificate.</p>
2(b).	<p>The suit protection performance figures should be for the NATO Stanag 2920 or MIL Standard 662F, 17 grain fragment simulator - V-50 (Firm to submit lab test report from National/International accredited Lab):-</p> <ul style="list-style-type: none"> (i) Sleeves Front – 560 M/Sec or better. (ii) Collar Front - 850 M/Sec or better. (iii) Trousers Front Thighs – 690 M/Sec or better (iv) Trousers Front Shins – 620 M/Sec or better (v) Boot Cover – 450 M/Sec or better. 	<p>Firm/OEM to provide National/International accredited lab certificate.</p>



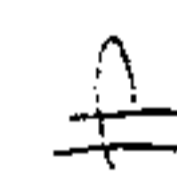







TRIAL DIRECTIVES: BOMB SUIT (Contd...)

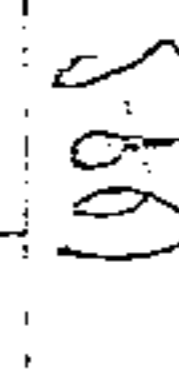

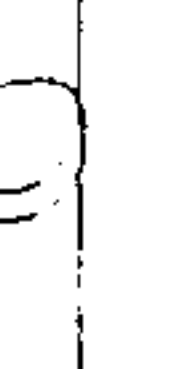
Revised QRs parameter

Serial No.	Trial Directives	Trial Directives
3.	<p><u>Cooling Suit</u></p> <p>(a) <u>The Fabric should be washable.</u></p> <p>(b) <u>The heat removal rate should be at least 270 watt (full suit) or better (Firm to submit lab test report from National/International accredited lab)</u></p> <p>(c) <u>Should enable the operator to wear it comfortably for minimum of 30 minutes with ambient temperature at 35° C or more.</u></p> <p>(d) <u>The pump should be operable by a Dry/rechargeable battery.</u></p> <p>(e) <u>Should be available in different sizes to suit users requirement.</u></p> <p>(f) <u>A second water/ice bottle should be supplied for stand by.</u></p> <p>(g) <u>The cooling source should be ice and water.</u></p>	<p>Firm/OEM to provide National / International accredited lab certificate</p> <p>To be checked physically by BOO.</p>
4.	<p><u>Ballistic EOD Helmet Protection performance</u> (Firm to submit lab test report from National/International accredited lab).</p> <p>(a) <u>V 50 (helmet) 600 M/Sec or better.</u></p> <p>(b) <u>V 50 EOD & BA visor 700 M/Sec or better.</u></p> <p>(c) <u>Weight with EOD & BA visors not more than 8.50 Kgs.</u></p> <p>(d) <u>The system should have an arrangement to accommodate the face mask inside the visor for breathing in an NBC environment.</u></p> <p>(e) <u>Ventilation and Demisting</u> : A helmet mount fan should provide effective ventilation and replaceable demisting arrangement with control unit within easy reach of the user.</p> <p>(f) <u>Environmental Awareness</u> : The helmet should have built in microphone for operator to hear all the conversation taking place in the vicinity.</p> <p>(g) <u>Two way Communication</u> : It should provide a two way communication whether on radio or wired between operator and officer in charge upto a distance of 100 meters.(Wired communication being optional depending on user requirements)</p> <p>(h) <u>Search Light</u> : The helmet must be fitted with a search light mounted on the visor for working in dark conditions.</p> <p>(i) <u>Live Video Camera</u> : Helmet must have an integrated facility into its visor for Live Video transmission to a command post located at a distance of 200 mtrs LOS and 100 mtrs in BUA. (Non line of sight)</p>	<p>Firm/OEM to provide National / International accredited lab certificate</p> <p>To be checked physically by BOO.</p>


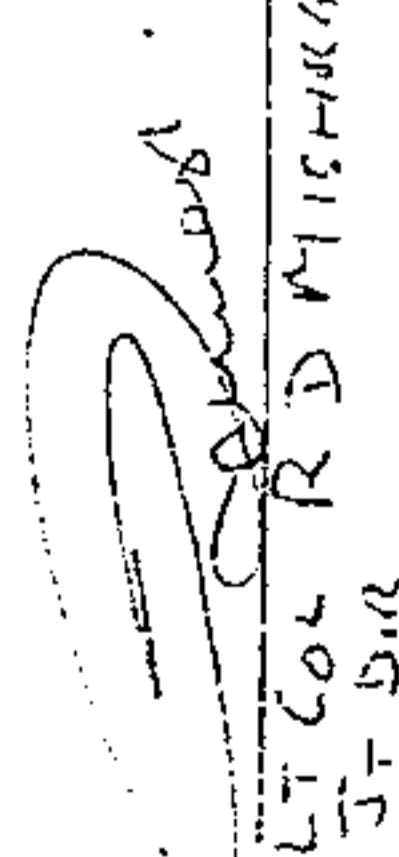
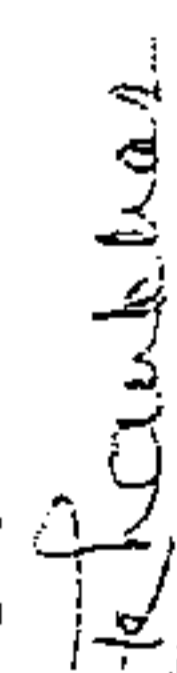



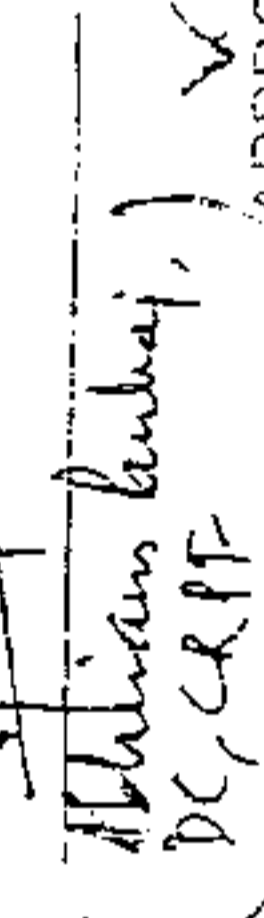
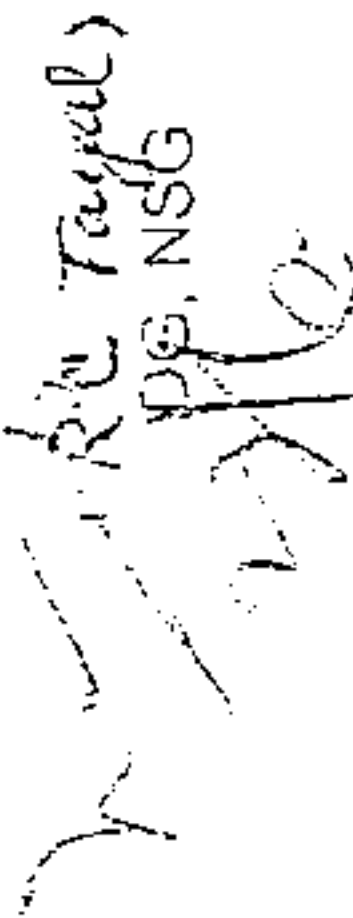
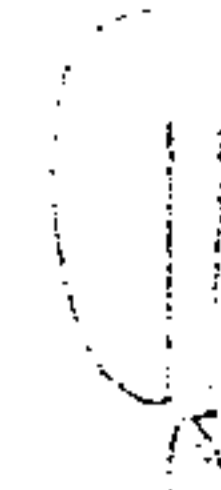
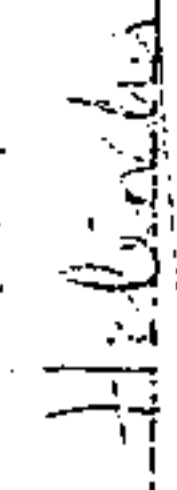






TRIAL DIRECTIVES : BOMB SUIT (Contd....)

Ser No	Revised QRs parameter	Trial Directives
(k)	The system must have voice activated, hands free controls of electronic features including light, audio levels, ventilation and demisting. However, these electronic features should also be operated through a separate console ergonomically located on suit.	To be checked physically by BOO.
5.	(a) Immediate removal/quick release of the jacket should be achieved.	
	(b) The jacket should have an arrangement for keeping working tools.	
	(c) All soft ballistic pouches must be removable in order to maintain outer shell.	
6.	Trousers.	
	(a) The trousers should be adjustable catering for different sizes.	
	(b) Immediate removable/quick release of the trouser should be achieved.	
	(c) Back protector should be fitted to the trouser.	
	(d) Trouser boot should be adjustable and also removable.	
7.	Power Pack.	
	(a) A rechargeable power pack should be suitably placed.	
	(b) It should have battery level indicator.	
	(c) Recharging. A suitable charger should be provided for rechargeable power pack.	
8.	Weight. Over all operating weight including helmet, cooling suit, complete suit, communication support and live audio video system etc should not exceed 50 Kgs.	
9.	Back Bone Protection. The suit should provide a high impact back bone protection arrangement (Firm to submit lab test report from National / International accredited Lab).	To be checked physically by BOO. Firm/OEM to provide National / International accredited Lab certificate.
10.	Operational Time. It should not take more than 10 minutes to wear the suit with all accessories, when assisted by a trained technician.	To be checked physically by BOO.
11.	Static Discharge. The bomb suit should have protection against static charge.	Firm/OEM to provide National / International accredited Lab certificate. However, the BOO should also check this parameter physically.

TRIAL DIRECTIVES : BOMB SUIT (Contd...)

Ser No	Revised QRs parameter	Trial Directives
12.	<p><u>Miscellaneous.</u> (User to specify as per requirement). The firm should be able to provide the following as applicable, along with the equipment:-</p> <ul style="list-style-type: none"> (a) Sets of all kinds of spare rechargeable batteries used in suit, charging kit (b) SMT (Special Maintenance Tools), if any (c) Training aids - charts, slides, training brochure, training work model, blow up diagram, video films etc, if any. (d) Physical training in India (e) Proof schedule to include details of inspection and acceptance criteria. (f) Technical Manual in English giving full description of the item (g) User Hand Book in English. (h) Literature on preservation/maintenance in English. (i) Specification for packing, handling/transportation/storage. (k) Details regarding periodical inspection by the user. <p><u>Validity and authenticity of lab test reports and certificates</u></p> <ul style="list-style-type: none"> (a) OEM to provide the latest lab test reports from a National / International accredited Lab. The OEM should also confirm that no product changes related to ballistic rating/testing or material have taken place since the last test. (b) All the test reports and certificates must invariably have the name, address, web site, e-mail address and contact Numbers of the testing agencies / lab. There should also be a point of contact provided for each testing lab. 	<p>The BOO will correspond with the testing agencies to confirm the authenticity of the certificates and lab test reports.</p>
13.	<p>U9 9-15  (Omprakash Chaudhary, DTP CSO)</p> <p> LT COL R D MISHRA JT DIR</p> <p> HARSHANKUMAR, DC BSR</p> <p> (Ashok Kumar) Insp (C/IA)</p> <p> (Rakesh Kumar, BSR)</p> <p> Anshu (Anshu Kumar, BSR)</p> <p> (Ashish Kumar, BSR) DC, CRPF</p> <p> R K Taggar DC, NSG</p> <p>APPROVED / NOT APPROVED</p>	<p> Subram A S ITRIP</p> <p> H. Srinivas MILJ II PR ALUMINUM BD UNIT, NSG</p>

No. IV-17018/3/07-Prov.I
भारत सरकार /Government of India
गृह मंत्रालय /Ministry of Home Affairs
पु.आ.प्रभाग /P M Division
संभरण-I डेस्क /Prov.I

26, Man Singh Road, Jaisalmer House
New Delhi, Dated : 22 October, 2013

To,

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

Subject : QRs and Trial Directives of Bomb Basket.

The QRs and Trial Directives of Bomb Basket per Appendix 'A' and Appendix 'B' respectively have been accepted by the Competent Authority in MHA.

2. Henceforth, all the CAPFs should procure the above items required by them strictly as per the laid down Technical Specifications/QRs.

Yours faithfully,



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

Encl : As above.

Copy forwarded to : SO (IT), MHA, with the requested to host the QRs (soft copy being sent through email) on the MHA website (under the page Organisational Set up-Police Modernisation Division - Qualitative Requirements)



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

Copy to : DDG(Procurement), P M Division, MHA.

Copy for information to : PPS to JS (PM)

REVISION OF QRs: BOMB BASKET

Appendix - A (19/35)

1. The explosive rating of Bomb Basket will be minimum 2 kg TNT equivalent for single use. (Certificate to the effect from a national/international accredited lab for each Bomb Basket will be provided by the OEM/Firm).
2. The weight of the Bomb Basket will be maximum 500 kgs.
3. The volume of the Bomb Basket will be minimum 80 liters.
4. The diameter of the opening of the Bomb Basket will be minimum 18 inches (1 1/2 feet).
5. The height of the Bomb Basket will be minimum 24 inches (2 feet).
6. The Bomb Basket should direct the primary fragments surrounding the explosive upwards through the opening on top.
7. The Bomb Basket should prevent any horizontal displacement/movement of fragments.
8. The Bomb Basket should not be made of any material which may act as secondary fragments.
9. The Bomb Basket should not rupture in the event of the blast irrespective of position of the charge.
10. The Bomb Basket should have a cart/dolly for movement and should have tools to facilitate easy loading and unloading.
11. Miscellaneous. The firm will provide the following documents/ literature (in English language) along with the equipment :-

- (a) Technical Manual with full description of all the items.
- (b) User's Hand Book.
- (c) Literature on care and preservation technique/methods.
- (d) Specifications for packing, handling/transportation/storage.
- (e) Details regarding periodical checks to be carried out by the user for serviceability of the equipment.

<u>MPJ</u> SILT MANISH RAJ, BSF	<u>Amey</u> A.K. Shukla AC, CISF	<u>S.K. Gantam</u> AEOA
<u>Gautam</u> (Joint OGR (N) DGR (N))	<u>Shiv Prasad Sati</u> AC/GO ETBP	<u>JUGRAT SINGH</u> DGR/Army
<u>Rajesh Kona</u> A.C S.S.B	<u>MAD ABHISHEK SINGH</u> SI SAG, NSG	<u>A. Mh</u> (LT Col A. Balanish OC BS unit)

Dea (Proc) NSS
OH
OC (Proc)

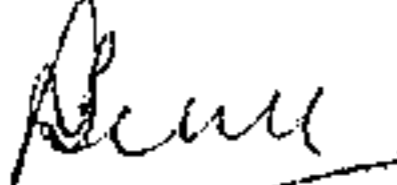
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Sou
4/1/11
(Subhash Joshi)
Director General, NSG

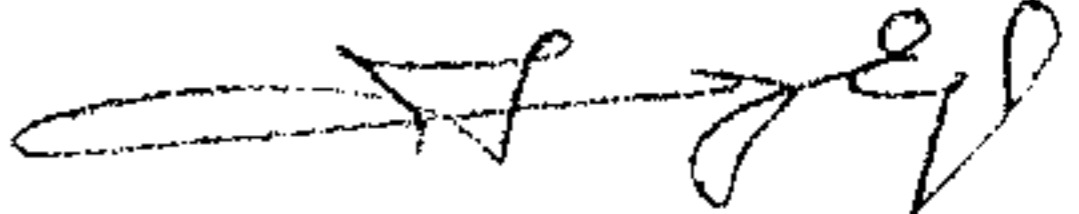
TRIAL DIRECTIVES OF BOMB BASKET

<u>Ser No</u>	<u>QR of Bomb Basket</u>	<u>Trial Directives</u>	<u>Remarks</u>
1.	The explosive rating of Bomb Basket will be minimum 2 kg TNT equivalent for single use. (Certificate to the effect from a national/international accredited lab for each Bomb Basket will be provided by the OEM/Firm).	In addition to the certification, 2kg TNT equivalent charge will be placed and blasted inside the bomb basket.	One Bomb Basket will be provided by the OEM/Firm for the test.
2.	The weight of the Bomb Basket will be maximum 500 Kgs.	To be checked physically by BOO.	
3.	The volume of the Bomb Basket will be minimum 80 liters.	To be checked physically by BOO by filling the Bomb Basket with water.	
4.	The diameter of the opening of the Bomb Basket will be min 18 inches (1 1/2 feet).	To be checked physically by the BOO.	
5.	The height of the Bomb Basket will be min 24 inches (2 feet).	To be checked physically by the BOO.	
6.	The Bomb Basket should direct primary fragments surrounding the explosive upwards through the opening on top.	To be physically checked simultaneously with test at Serial No-1 above with 100 gms of different type of nails.	Primary fragments should be directed upwards through the opening.
7.	The Bomb Basket should prevent any horizontal displacement / movement of fragments.	To be physically checked simultaneously with test at Serial No-1 & 6 above.	No evidence of perforation of the side walls of the Bomb Basket will be the acceptance criteria.
8.	The Bomb Basket should not be made of any material which may act as secondary fragments.	To be physically checked while carrying out the blast. OEM certificate for compliance also reqd.	Secondary fragments of bomb basket material should not be formed.
9.	The Bomb Basket should not rupture in the event of the blast irrespective of position of the charge.	To be physically checked simultaneously with test at Serial No-1,6 & 7 above. OEM certificate for compliance also reqd.	
10.	The Bomb Basket should have a cart/dolly for movement and should have tools to facilitate easy loading and unloading.	To be checked physically by the BOO.	


Ser No	QR of Bomb Basket	Trial Directives	Remarks
11.	Miscellaneous. The firm will provide the following documents/ literature (in English language) along with the equipment :-		
(a)	Technical Manual with full description of all the item.	To be checked physically by the BOO.	
(b)	User's Hand Book.	-do-	
(c)	Literature on care and preservation technique, as applicable.	-do-	
(d)	Specification for packing, handling / transportation / storage.	-do-	
(e)	Details regarding periodical checks to be carried out by the user for serviceability of the equipment	-do-	

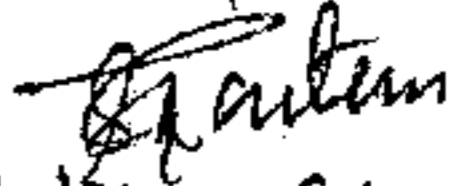

A.K. Shukla AC, CISB



Joint Dir (SA)
D4 BA (I)


JUGRAJ SINGH
DG&A/Amro



S/T MANISH RAJ, BSP



Rajeev Kana, AC, SSB



SATISH KUMAR


GE (Proc), NSG

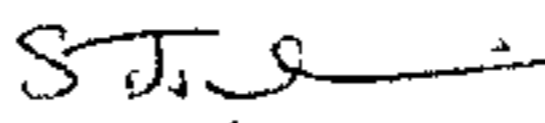

DCI (Proc), MSS


Shiv Prasad Sati AC,
ITBP


MAJ ARSHDEEP SINGH
SBN CDR, SI SAG


Lt Col A Badar Krishnan
CE BD Unit.

Approved / Not approved


4/11/11

(Subhash Joshi)
Director General, NSG