

No. IV-21011/01/2010-Prov.I
Government of India/भारत सरकार
Ministry of Home Affairs/गृह मंत्रालय
Police Modernization Division/पुलिस आधुनिकीकरण प्रभाग
Prov.I Desk/संभरण-I डेस्क

26, Mansingh Road, Jaisalmer House,
New Delhi, the 15th May, 2013

To,

DsG : AR/BSF/CISF/CRPF/ITBP/NSG/SSB & BPR&D

Subject : Trial Directives of Bullet Proof Harness with Shoulder Pad.

The Trial Directives in respect of Bullet Proof Harness with Shoulder Pad 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 18.08.2012.



(Smt. S B Nanda)

Under Secretary to the Govt. of India

Encl : As above (Five Pages).

Copy to :

1. SO, IT Cell, MHA – with the request to host the QRs/Specification of Bullet Proof Harness with Shoulder Pad on the official website of MHA (under the page of organizational set up, Police Modernization Division) and confirm to this Division. Softcopy is being sent through email also.
2. Director(Procurement), MHA

Copy for information to PS to JS(PM).



(R K Soni)

Section Officer(Prov.I)

TRIAL DIRECTIVES : BULLET PROOF HARNESS WITH SHOULDER PAD

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Ser No.	Parameters	Method	Remarks
Features for Cloth Harness			
01.	Harness made of Polyester cotton cloth to carry two rubberized BP Steel Plates	BP Steel Plates (10 to 12 Kgs) will be put in the Harness and functionality will be checked under various Ops conditions. A soldier will be made to wear the Harness and check its functionality by making him run (100 mtrs), crawl (20 mtrs) and jump from a height of one meter and later check whether it fits properly, flaps covers are properly fitted, pouches (stitches) not bursting at its seams.	-
02.	Provision available for insertion of trauma pad behind the BP Plates for minimizing blunt trauma to the wearer due to the bullet impact	Trauma pad will be inserted in the provision provided and functionality will be checked under various ops condition as specified above.	-
03.	'Cummer Bund' design ensures proper weight distribution and free limb movement Velcro fasteners have been provided to ensure snug fitment to differing contours of wearer	Free limb movement and proper weight distribution of 'Cummer Bund" by Velcro fasteners by fitting the harness on differing contours i.e. on different persons of various sizes will be carried out.	-
Product Specification-			
04.	Harness Fabric (-Weight is given for 1m x 1m size fabric)	Will be calculated / measured accordingly.	-
(a)	Outer : Polyester cotton cloth of 195 gsm** (+/-5 gsm) (Color to be specified by the user)	Test certificate from NABL to be provided by the firm/supplier.	-
(b)	Inner : Cloth cotton drill of 215 gsm** (+/-5 gsm) (Color to be specified by the user)	Test certificate from NABL to be provided by the firm/supplier.	-

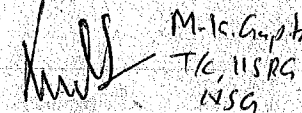
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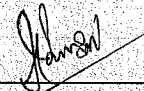
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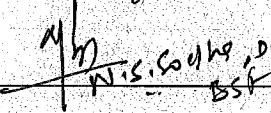
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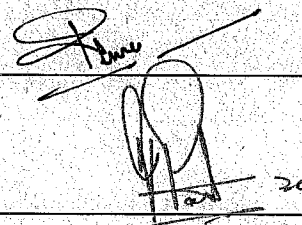
Ser No.	Parameters	Method	Remarks
(c)	Water resistant PU coated nylon fabric of 60 gms (+/- 3 gms) for covering trauma pad.	Test certificate from NABL to be provided by the firm/supplier.	-
05.	Shoulder Pad : PU High Density, 30mm Thick Foam 11cm wide embedded in the harness	To be physically checked by the BOO.	-
06.	Pouches for BP Plates Dual size pouches to enable insertion of rubberized BP Plates of following dimensions, one at the front and one at the rear.	BP Steel Plates (10 to 12 Kgs) will be put in the Harness and functionality will be checked under various Ops conditions. A soldier will be made to wear the Harness and check its functionality by making him run (100 mtrs), crawl (20 mtrs) and jump from a height of one meter and later check pouches cover are covered properly.	-
(a)	380 mm x 360mm	To be physically checked by the BOO.	-
(b)	350mm x 300mm	To be physically checked by the BOO.	-
(c)	Stitching tape incorporate in pouch stitching to ensure adequate weight bearing capacity. Three row stitching to ensure adequate strength and ruggedness for operational use with 5-7 stitches per 25mm.	Certificate to be provided by the firm/suppliers. BP Steel Plates (10 to 12 kgs) will be put in the Harness and functionality will be checked under various Ops conditions as specified at para 6 above.	-

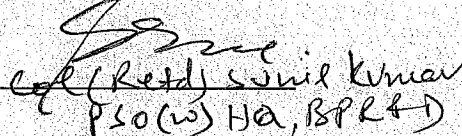

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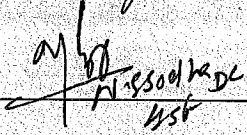

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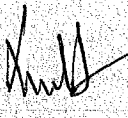
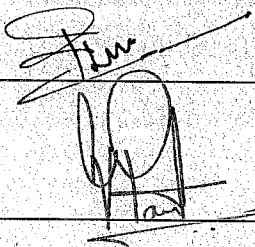

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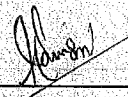
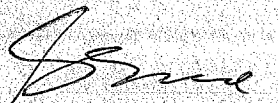
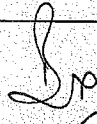




Ser No.	Parameters	Method	Remarks
(d)	All the clothing flaps of cloth harness should have high quality Velcro fasteners, so that it can be worn and taken off easily/quickly. The peel and shear strength of the Velcro used shall not be less than 250 Newton/cm ² and 1300 Newton/cm ² respectively when tested as per IS:8156-1994.	Certificate from NABL w.r.t IS : 8156-1994 to be provided by the firm/supplier. Functionality will be checked by the BOO.	-
(e)	Inclusion of multipurpose box pocket size 21 x 15 Cms in front of harness	To be physically checked by the BOO.	-
(f)	Pocket with Velcro strap on front right hand side of harness to keep Hand Held Radio Set.	To be physically checked by the BOO.	-
07.	<u>Pouches for Trauma Pads</u>		
(a)	Pouches are provided on the inner side of the harness, on the cloth cotton drill. Dimensions of the pouches will be 360mm x 340mm. The pockets will accommodate pads of 30mm thick high density polyurethane foam of dimensions 300mm x 300mm enclosed in Synthetic, water repellent cloth	Certificate for synthetic water repellent cloth from accredited lab to be provided by the firm / supplier. Also will be checked physically by the BOO.	-
(b)	Suitable flap covers with Velcro fasteners will be provided	Trauma Pads will be put in the Harness and functionality will be checked under various Ops conditions as specified above.	Trauma Pads To be provided by the OEM


 SC (FOS) Ujendra NSG

 NSG


 Mr. K. Gupta
 TIC, IISRG
 NSG

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 S. K. Gupta
 (Chief) Social Kumar
 (PSO(w) HQ, BPRD)

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Ser No.	Parameters	Method	Remarks
08.	Pockets for carriage of Ammunition Magazine		
(a)	Two pouches will be provided on the front side for carriage of two magazines of LMG in each pocket. Stitching tape will be incorporated in pouch stitching to ensure adequate weight bearing capacity. The pockets will have flap cover with Velcro fasteners. Dimensions of the pockets will be as under:-	Dimensions will be measured and functionality test will be carried out by putting completely filled magazines of LMG. Certificate for Velcro strength to be provided by the firm/supplier from an accredited lab.	-
i)	230mm x 120mm	To be physically checked by the BOO.	-
ii)	230mm x 120mm	To be physically checked by the BOO.	-
09.	Pockets for carriage of Grenades		
(a)	Two pouches will be provided on the front side for carriage of two grenades in each pocket. Stitching tape will be incorporated in pouch stitching to ensure adequate weight bearing capacity. The pockets will have flap cover with Velcro fasteners. Dimensions of the pockets will be as under :-	Grenades will be put in each pocket to check weight bearing capacity, check whether flap covers are properly fitted or otherwise. Certificate for Velcro functionality test from an accredited lab to be provided by the firm/supplier.	-
i)	230 mm x 120mm	To be physically checked by the BOO.	-
ii)	230 mm x 120mm	To be physically checked by the BOO.	-
10.	Leading Particulars		
(a)	Overall length - 1340mm (+/- 10%)	To be physically checked by the BOO.	-
(b)	Weight of Harness - 1000 gm (+/- 10%)	To be physically checked by the BOO.	-

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