

**U.T. Administration of Daman & Diu,
(Police Department)
Daman
FAX No. 0260 – 2251456**

No. COP/DMN/Police/UPMS 2007-08/store/B.P. Helmet/2009/ 497 Dt. 16/04/2009.

SHORT TERM QUOTATION NOTICE

Sealed Quotations are hereby invited by the undersigned on the behalf of the President of India from the interested manufacture/Authorized Dealers/Suppliers for the following type of Bullet proof Helmet for Police so as to reach by Register Post/ Courier/ Hand Delivery of before 24/04/2009 up to 15:30 hrs.

Sr. No.	Particulars	Qty	Rate per No.
1.	Bullet Proof Helmet (As per Attached Specification)	04 Nos.	

Terms and Conditions: -

1. The sealed envelop should be super scribed by words “ Quotations for” Bullet Proof Helmet”
2. The rates should be quoted inclusive of all taxes and fricht charge for Daman Police H.Q. Daman only.
3. Quotation received after due date and time will not be taken into consideration.
4. Complete details in all respect of Bullet Proof Helmet”for Police Department should be produced with rate quotation notice.
4. The E.M.D. of Rs. 2,500/- in form of FDR/SD from of any Nationalized of Schedule Bank in favour of the Dy. Inspector General of Police, DD, Daman should be attached with sealed quotation & Demo Training at Nani Daman Police Station.
6. Payment will be made only after execution of purchase order as per this Department’s specification
7. On acceptance of rates complete Bullet Proof Helmet”in all respect should be delivered within stipulated period form the date of supply order.
8. Item of Bullet Proof Helmet should be of standard quality only. The substandard materials shall be Rejected
9. If any Bullet Proof Helmet found defective it should be replaced by the supplier at his own risk & cost.
10. Quotation without EMD/SD will not be considered.
11. The Supplier/Manufactures must having SST/CST registration with Govt. Department Concerns.
12. Right to reject or accept any or all quotations is reserved with the undersigned.

Chief of Police, Daman.
Daman (U.T.)

TECHNICAL SPECIFICATIONS FOR BULLET PROOF HELMET

The PST (Police, Special Operations, & Tactical) helmet should be the latest evolution of a well proven design.

DESIGN

The PST helmet has to be specially designed for Law Enforcement use and incorporates materials technology that is tailored to the threats that will be met by Police officers and security personnel.

The materials and processes should be altered to increase the content of ballistic material within the shell without increasing the weight. This means are not only lighter, but are able to defeat a wider range of bullets up to NIJ IIIA.

The harness has also had a complete make over, with only 4 bolts being required as opposed to the usual 8, and a new mesh crown pad, which gives excellent load distribution.

The chin strap should have a four point adjustable harness that allows for excellent head retention and balance even when ballistic face shields are used.

The harness should be able to be adjusted to fit a wide variety of different head sizes and shapes using five basic adjustment points:

- ◆ Velcro adjusted mesh crown pad, to alter helmet height.
- ◆ Velcro adjusted head band, to alter head size fit.
- ◆ Plastic Tri Glide buckle on the chin strap, to alter back to front tilt.
- ◆ Two Ladder Lock buckles, to alter the chin strap location.

Moreover, once the helmet is fully adjusted to fit to remove the helmet one simply releases the Press Stud on the chin strap.

The helmet is to be covered in the latest paint technology not only offering the ability to be tailored to a variety of different IRR requirements but also providing a very tough and durable finish.

PERFORMANCE

Ballistic performance:

The PST is to be designed to defeat the following bullets and certified to NIJ 0108.01:

NIJ Level	Bullet	Bullet Weight Grains	Maximum Velocity m/sec (ft/sec)	No. of Strikes
IIIA	9mm FMJ	124	441 (1450)	5
IIIA	44 Mag SWC - GC	240	441 (1450)	5

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Fragmentation Performance:

The PST is to be designed to offer protection in accordance with Mil Std 662 as follows:

Fragment FSP Weight Grains	V ₅₀ m/sec (ft/sec)
17	650 (2150)

Low Velocity Shock Attenuation:

The PST is to be designed to offer low velocity impact protection in accordance with EN 397:

Striker Shape	Striker Mass	Drop Height	Residual Force
50mm Hemisphere	5.0 kg	1000mm	<5.0kN

Bolts: The bolts are also to be specially designed to comply with the protection offered to the helmet.

PHYSICAL DATA

Weight & Size:

Size	Head Sizes: circ		Dia in	Weight	
	cm	in		Kg	lbs
Medium	54-59	21-23	6 ½- 7 ¼	1.35	2.9
Large	57-64	22-25	7 - 8	1.40	3.1

The helmet Due to the wide the variability of the Harness is should be possible possible to meet the size requirements within two sizes rather than the normal 3 or 4 which improves the logistical distribution of the product.

Colour:

Standard colours to be Black & Navy Blue.

Materials:

Item	Material
Helmet Shell	Plain Weave Aramid in a High Tensile/Elongation Resin
Edge Profile	Neoprene Rubber
Paint	Epoxy Undercoat/Polyurethane Top Coat
Webbing: Head Band	Nylon to UK/SC/3632 E
Webbing: Chin Strap	Polypropylene
Plastic Fittings	Acetyl
Foam: Brow Pad	Polyether
Foam: Back Pad	LDPE
Fabric	Polyamide
Mesh Fabric	Polyester
Velcro	Polyamide
Sewing Thread	T.No. 36 Polyester/Cotton
Bolts	Stainless Steel Black Oxy Coated

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ACCESSORIES

Camouflage Covers:

Camouflage covers are to be available in a wide variety of international camouflage fabrics and if required can be made reversible with two different fabric options.

Face Shields/ Visors:

There should be a Face shields that can be fitted to the helmet:

- ◆ Bullet Resistant Face Shield

For these to be fixed the helmet will need to be supplied with attachment brackets factory fitted.

- Neck Protector** : A three piece removable neck protector is available which offers protection from hand thrown missiles and blunt impact as well as being made in Flame Retardant material.
- Belt Carrying Strap** : A simple belt mounted carrying strap that can either Carry the helmet or the helmet bag can be attached to the utility belt to allow for hands free manoeuvrability.
- Helmet Bag** : A foam lined protective bag is available which can take a helmet with face shield and neck protector and will keep ones helmet protected from the rigors of normal storage conditions. The bag has an attachment loop that will allow it to be clipped onto the utility belt using the carrying strap above.
- Spares** : A complete harness with new bolts is available and comes with its own hexagonal Allen key to undo the four retaining bolts for quick replacement.
- Warranty** : A offer of a 5 year warranty on the ballistic performance of the helmet in service and a 10 year shelf life. The internal harness is warranted for a period of 2 years. All warranties are subject to Second Chance standard terms and conditions.

QUALITY ASSURANCE

MANUFACTURERS IN ACCORDANCE WITH THE QUALITY STANDARD ISO-9001 is essential.


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DAMAN.**