

कार्यालय पुलिस उपमहानिरीक्षक पीएसी मेरठ अनुभाग मेरठ।

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पत्र संख्या: पीएसी-एमएस-एचसी-01-2015(हेल्मेट)

दिनांक: दिसम्बर 21, 2015

सूचना

उत्तर प्रदेश पुलिस/पीएसी के उपयोगार्थ बुलेट प्रूफ हेल्मेटो की आवश्यकता है। विशेष सचिव उ0प्र0 शासन के शासनादेश संख्या 3366/6-पु-7-15-2(4)/2013 दिनांक 08.10.2015 के द्वारा पुलिस विभाग को बुलेट प्रूफ हेल्मेट कय किये जाने हेतु प्राधिकृत किया गया है। इस शासनादेश के आलोक में बुलेट प्रूफ हेल्मेटो का क्रय भारत सरकार के उपक्रमो के माध्यम से किया जाना प्रस्तावित है।

2- भारत सरकार के इच्छुक उपक्रम अपने सीलड तकनीकी भावपत्र (2 सीलड लिफाफा, मूल तकनीकी भावपत्र एवं डूप्लीकेट तकनीकी भावपत्र) एवं वित्तीय भावपत्र, (2 सीलड लिफाफा मूल वित्तीय भावपत्र तथा डूप्लीकेट वित्तीय भावपत्र) अलग- अलग प्रेषित करें। भावपत्रों के साथ 02-02 सैम्पल (स्माल, मिडियम तथा लार्ज साइज) भी निर्धारित स्पेसिफिकेशन के अनुसार पुलिस उपमहानिरीक्षक पीएसी, मेरठ अनुभाग मेरठ को प्रेषित करें।

3- बुलेट प्रूफ हेल्मेट की तकनीकी विनिर्देश (स्पेसिफिकेशन) उ0प्र0 पुलिस की बेवसाइट <http://uppolice.up.nic.in> एवं सूचना विभाग की बेवसाइट <http://upgov.nic.in> से डाउनलोड की जा सकती है अथवा पुलिस उपमहानिरीक्षक पीएसी, मेरठ अनुभाग मेरठ के दूरभाष व फैक्स संख्या 0121-2610700 से प्राप्त की जा सकती है।

4- निम्न सामग्री की आपूर्ति अवधि 31.01.2016 निर्धारित है :-

क्र० सं०	उपकरण का नाम	कुल मात्रा	विवरण
1	बुलेट प्रूफ हेल्मेट	275 अद्द	Specification enclosed. Out of 275 pieces BP Helmet, 80% i.e. 220 Helmets without visor / 10% i.e. 28 BP Helmets with Normal Visor useful in normal law and order situation providing protection against splinters. Remaining 10% i.e. 27 BP Helmet with Bullet Proof Visor. 50% of total quantity i.e. 138 Number will be of medium size of the above categories. Remaining 50% i.e. 137 number will be of large size of all above categories.

उपकरण की क्रय सारिणी निम्नवत निर्धारित है:-

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|----|--|---|-------------------------------------|
| 1- | तकनीकी भावपत्र तथा वित्तीय भावपत्र. एवं 06 सैम्पल (02 स्माल साइज विद बुलेटप्रूफ वाइजर, 02 मिडियम साइज विद बुलेटप्रूफ वाइजर तथा 02 लार्ज साइज विद बुलेटप्रूफ वाइजर) जमा करने की तिथि | - | 15.01.2016 अपरान्ह 1400 बजे तक |
| 2- | तकनीकी बिड खोला जाना | - | 15.01.2016 अपरान्ह 1600 बजे तक |
| 3- | उपकरण का प्रदर्शन एवं नाप जोख | - | 16.01.2016 पूर्वान्ह 1200 बजे |
| 4- | वित्तीय भावपत्र खोलना तथा क्रय समिति की बैठक | - | तदनुसार फर्मा को सूचित किया जायेगा। |

(नवनीत कुमार राणा)

पुलिस उपमहानिरीक्षक पीएसी
मेरठ अनुभाग मेरठ।

SPECIFICATIONS/QRs FOR BULLET PROOF/RESISTANT HELMET (BALLISTIC)-

1.Ergonomy :-

It should be possible to wear adjust and remove the helmet with ease even with gloved hand . It should be provided with a three point chin strap with comfortable cushioned chin cup made of appropriate non-abrassive ,non allergic material/double strap of reasonable width. The helmet should adequately cover the neck and ear but it should not impair the hearing. Helmet should be compatible with active ear protection.

2.Shape :-

The helmet should adequately cover the head, neck and ears of the wearer and its design should be on the line of the Modular Integrated Communication Helmet [MICH]/Advanced Combat Helmet[ACH]. The shape of the Helmet should facilitate the use of handset within service communication equipment . Helmet should have provision to mount a display system, hands free communication equipment and fix-electro-optical devices and detachable visor as and when required . Vendor should provide a drawing of the Helmet along with dimension and surface area for the entire three size helmet. The dimensions of attachments/accessories to be mounted on Helmet(including additional attachments) will be defined by user seperately in the tendering documents.

3. Material :-

Vendor should declare the type of material(arial density) construction, dimension and weight of fabricated BR Helmet during tendering process. They should maintain the same in bulk supplies.

4. Surface finish & colour :-

The proposed Helmet should be of crinkle matt finish and is to be provided in khakhi/sand /Desert Tan color.

5- Protection :-

Protection of helmet against 9x19mm cartridge fired through sub machine gun (such as sten machine, MP-5, Carbine any other variant) from a distance of 5 meters to achieve a muzzle velocity 430 ± 15 m/s and weight of the bullet between 7.4 gm to 8.2 gm .The deformation in the helmet should not exceed 13mm. The material of the helmet should be fire /flame retardent and water resistant .

6. Climatic Condition :-

The entire helmet must withstand repeated and sustained exposure to climatic conditions. The firm must provide certificate from the accredited laboratory with regard to temperature and humidity as given below:-

- [a] Temperature - -50 degree Celsius to 60 degree celsius for six hours.
- [b] Relative Humidity- up to 90 %

7. Use of Optical Instruments: -

The design of the helmet should be such that it should not obstruct the use of monocular/binoculars(day and night),optical sights fitted on the weapons,range finders and artillery optical instruments as per the requirements of user .The dimension of attachment/accessories to be mounted on helmet will be defined by the user seperately in the tendering documents.

8. Compatibility :-

The design of the helmet should be compatible to wear alongwith respirators and chemical hoods . The metal / plastic part of if used must be coated and laminated with grade-1 insulation. The firm must provide certificate from the accredited laborator

9. Comfort: -

The helmet should not cause any Undue discomfort even after prolonged wearing by an individual for more than 8 hours. The helmet should not hinder aiming during firing and enable unhindered use of in service optical devices and personal spectacles.

10. Weight : -

The weight of the helmet less the visor should be as under :-

- [a] Small size helmet - not more than 1.25 kg.
- [b] Medium size helmet - not more than 1.35 kg
- [3] Large size helmet - not more than 1.45 kg

11. Inner Lining /Harness: -

The helmet should be provided with a suspension system which should be adjustable to head size A removable pad system for suspension, comfort and protection from the deformation as mentioned in the para-5 above should be provided, which should ensure air circulation

12. Chin strap :-

Adjustable chin strap with three or four points support must be provided . The material of the chin strap should be suitable to Indian weather conditions and should be rugged enough to withstand rough handling in the field. The buckle of the chin strap should be easy to engage/ disengage and its position on the cheek should not hinder aiming during firing. The material of the buckle should be harmless to skin in all types of climate conditions .

13. Size :-

The helmet should be provided in three sizes , viz Small, Medium and Large size. The inner circumference of the helmet with suspension pads should be adjustable as under .

13.1 Head circumference (maximum circumference measurement of the head above the eyebrows)

- | | |
|-----------------|-----------------------------|
| [a] Small size | - 48 up to 52 cm. |
| [b] Medium size | - more than 52 up to 57 cm. |
| [c] Large size | - more than 57 up to 64 cm. |

13.2 Sagittal arc (it measures the distance over the top of the head between glabella to the nuchale , which is the base of the occiput)

- | | |
|-----------------|--------------------------|
| [a] Small size | - 30 up to 35 cm. |
| [b] Medium size | - more than 35 to 39 cm. |
| [c] Large size | - more than 39 to 44 cm. |

14. Shelf life :-

Shelf life of helmet indicated is 10 year in storage conditions. The operational life of seven years is mentioned in field conditions because of different climatic conditions and normal wear and tear. In this regard manufacturer has to submit a certificate along with the supply .

15. Provision for visor: -

Suitable provisions should exist in the BR helmet for attaching a protective visor . An additional weight of upto 1.5 kg with click system [Tolerance of 10 gm permitted] for the visor along with provision for its attachment in overall weight of the helmet is acceptable . The visor and provisions for its attachment in helmet would be required on selective basis as per user requirement. It should provide protection against ballistic fragments and other flying debris. It should have a clear air passage on the top and bottom to prevent fogging of the visor. It should conform to ballistic protection as per user requirements.

16. User Evaluation :-

16.1- Testing of BR helmet for **Ballistic Evaluation** will be carried out at CFSL or TBRL, Chandigarh laboratories as per QRs and specifications.

16.2- Testing of BR helmet for **Physical evaluation** should conform to the Indian standard : 9562-1980 [Reaffirmed 2007] edition 1.5 [2000-12]

17. Packing :-

The helmet should be packed individually in a water proof carry bag .

18. Literature / Document :-

Literature giving details of the equipment , functioning and handling should be provided at the time of trials . It must also give out details of maintenance requirements

19. Warranty: -

Store supplied against this specification shall be deemed to bear the warranty of the supplier against defective design material, workmanship and performance for a period of twelve months from the date of receipt of store at consignee end. And if during the specified period, the store supplied is found to be defective, the same shall be replaced immediately with serviceable store by the supplier at site free of any charges as may be decided by the purchasing officer on recommendation of consignee/ Quality Assurance Authority.

NOTE: the level of protection is limited to the 9mm (NIJ Level III A).