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HEADQUARTERS
PHILIPPINE ARMY
OFFICE OF THE ARMY QUARTERMASTER
Fort Andres Bonifacio, Metro Manila

PA SPECIFICATION

QM SPEC NR IE-22PABH
Amendment - 1
FEB 11 2019
Interim

PHILIPPINE ARMY BALLISTIC HELMET

This Amendment forms part of PA QM SPEC NR IE-22PABH dated 06 September 2017 and is mandatory for use of all procuring agencies of the Philippine Army.

1. Page 3, Para 2.3.1.2.5 Ballistic Transient Deformation (BTF) – change the following requirements of the **BTF on the front and back of the helmet, to read:**

Bullet type	As Read	To Read
9mmx19mm FMJ RN	25.0 mm	16.0 mm
.357 SIG FMJ FN	25.0 mm	16.0 mm
.45 cal x 23mm, Ball FMJ (M1911)	25.0 mm	16.0 mm

2. Page 4, Para 2.3.1.2.11 Head Protection Coverage – include the word/s on the sentence, to read: “It shall be measured using a 3D light scanning device **or its equivalent.**”

3. Page 4, Para 2.3.2.1.1 Change the entire paragraph, **to read:** “It shall consist of a 4-point chinstrap black in color, **nape pad and ratchet system.** It shall be designed for one-handed operation (closure and adjustment). The adjustment should be done in one direction. It should have provision for a quick-release mechanism. **It shall have a chinstrap anchorage capacity of 25kg to 40kg when tested as per EN397 protocol.**”

4. Page 4, Para 2.3.2.1.3. Change the entire paragraph, **to read:** “**The attachment of retention system shall not require additional drill hole and bolt in order not to pose secondary hazard and maintain the ballistic integrity of the helmet.**”

5. Page 4, Para 2.3.2.1.4 Change the requirement on the minimum breaking strength of the webbing **as read: 500N (minimum), to read: 1,000N (minimum)**

6. Page 5, Para 2.3.3.1.1. Insert the word “**(minimum)**” after the word/s “7 pads.”

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7. Page 5. Add the sub-paragraph under Para 2.3.3.2 (Suspension Pad system), to read: "Para 2.3.3.2.4. The hook disk and fastener attaching the suspension pad system to the ballistic shell shall be durable and shall meet the following requirements:

PARAMETERS	REQUIREMENTS	TEST STANDARD
Minimum Shear strength	8N/sq cm effective area	BS EN 13780
	5Nsq cm effective area	After 5,000 Opening and Closing cycles in accordance with BS EN 13780 and 1414
	1.5N/cm effective width	BS EN 12242
Minimum Peel Strength	0.65 N/cm effective width	After 5,000 Opening and Closing cycles in accordance with BS EN 12242 and 1414

8. Page 6, Para 2.3.4.2.1 Change the entire paragraph, to read: "The shroud shall be universal and fit to the existing NVG equipment of the Philippine Army (PVS – 7B and PVS – 14 Generation II and III) and shall provide a bracket/adapter for A100 monocular NVG model in accordance to the number of requirements of the end-user to be stipulated in the contract"

9. Inclusion of the following paragraphs on the requirements for the Rail System, to read:

2.3.5 RAIL SYSTEM

2.3.5.1 It shall consist of left and right rails that fit to all sizes.

2.3.5.2 It shall have entry points along upper and lower dovetails to enable multiple entry points that can accept widely used rail bases, such as swivel clips, picatinny and winged rail bases. It should also be able to accommodate clips for oxygen mask or gas mask.

2.3.5.3 The design shall allow for easy one handed attachment for widely used rail bases.

2.3.5.4 The attachment of railing system shall not require additional drill hole and bolt in order not to pose secondary hazard and maintain the ballistic integrity of the helmet.

2.3.5.5 It shall match helmet shell curvature ensuring secure helmet mounting for accessory stability.

2.3.5.6 Color: Olive Drab



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10. Inclusion of the following paragraphs on the requirements for the Counter Weight System, to read:

2.3.6 COUNTER WEIGHT SYSTEM

2.3.6.1 The ballistic helmet shall be provided with counterweight that will counter the weight of the NVG of the Philippine Army and other front mounted devices.

2.3.6.2 The counterweight shall be detachable and can be removed by the user when not needed.

2.3.6.3 The counterweight system shall not use any additional drill holes in attaching the system.

2.3.6.4 The counterweight system shall not be attached primarily by a hook and loop tape. It shall be well fitted, stable and shall have no unnecessary displacement.

11. Page 6, Para 2.3.5 Ballistic eyewear – Inclusion of additional subparagraph for the requirements of the Ballistic eyewear, to read: **“2.3.5.1.4. The ballistic eyewear shall be a spectacle type of eyewear (*shade type*).”**

12. Page 6, Para 2.3.5 Ballistic Eyewear – inclusion of additional subparagraph, to read: **“The eyewear shall have a separate carrying case capable of carrying all components of an eyewear.”**

13. Page 6, Para 2.3.5.1.3 Insert the word/s **“or retention strap (*for those design that do not have temple arms*)”** after the word/s “flexible strap end”.

14. Page 6, Para 2.3.5.2.1 Protection – change the entire paragraph, to read: **“It shall provide ballistic protection against shrapnel and fragments in accordance to any of the ballistic standard: STANAG 2920, MIL-PRF-32432 or MIL STD 662 with a minimum V_{50} of 150 m/s (5.8 gr/17 gr; .15 Cal/.22 Cal).”**

15. Page 6, Para 2.3.5.2.2. Change the entire paragraph, to read: **“It shall provide at least UVA protection in accordance to MCEPS/MIL-PRF32432 or ANSI/ISEA-Z87.1-2010.”**

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16. Page 7, Para 2.4.1 Label – specify the data on the rated level of protection, to read:

ii. Rated Level of Protection: 9mm FMJ; .357 SIG FMJ & .45 FMJ; $V_{50} = 720$ m/s (min)


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