

4. Equipment Name:- Full Body Protector

Material - Cloth Jackets of fire retardant drill cloth in required colour and required camouflage pattern.

Colour -As required-plain/ disruptive/ camouflage pattern.

Weight- 5.950kg \pm 10%

Size:- Small/ Large/ Extra Large (The description is given here for large size)

Properties

- Physical protection against brick batting cane/knife/acid attacks, molotov cocktails and projectiles encountered in Riot situation and other policing functions.
- Special fire retardant, high impact resistance rubber inserts.
- Protective sheets for front and back pouches with trauma pads.
- **Sweat absorbing mesh fabric (detachable & washable) in-lined** elbow and shin guards ergonomically formed to protect limbs during riot/mob situation
- Impact attenuation (reduction) above 80%.
- Ergonomic design for maximum wearing comfort.
- Thoroughly tested by leading **NABL** laboratories engaged in research in physiology and bio-engineering with certificate to that effect.
- Design ensures restraint free movement long shelf life, light wt. with Excellent Protection capability.

1. Chest Protector- (40 cm \pm 10%)

- Upto 4.5 mm \pm 10% thick poly foam.
- Inner lining made of mesh fabric(**Detachable & washable**) with sweat absorbing lining 2mm \pm 10% thick foam with specified (16-22) shore A hardness and engineered plastic **certified from a NABL lab**.
- Weight: - Less than 3.00 kg
- Material – **High quality unbreakable** engineered plastic for front and back pouches with trauma pads.
- High impact resistant rubber insert **to absorb trauma**.
- All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air.**
- Inter stichable so as to remain in place and not slip.**

2. Elbow Pad. (Length- 37 cm \pm 10%)

- Made of soft engineered plastic
- Velcro closure.
- EVA (Ethylene and vinyl Acetylene based Polymer) Poly foam of minimum specified hardness.
Engineered plastic with matt surface of 2.5mm \pm 10% thickness.
- Mesh fabric poly foam of upto 4mm \pm 10% specified hardness.
- Should be able to withstand impact from one metre on hard surface.
- Inter stichable so as to remain in place and not slip.**
- All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air.**
- The fabric should be detachable & washable.**

3. Shin guard- (Length- 55 cm±10%)

- a. Made of soft engineered plastic or any other NABL proven superior material.
- b. Elastic stripes for easy wearing.
- c. Velcro closure
- d. **Sweat absorbing mesh fabric** Poly foam 10mm±10% hardness
- e. **Inter stichable so as to remain in place and not slip.**
- f. **All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air.**
- g. **The fabric should be detachable & washable.**

4. Upper Arm

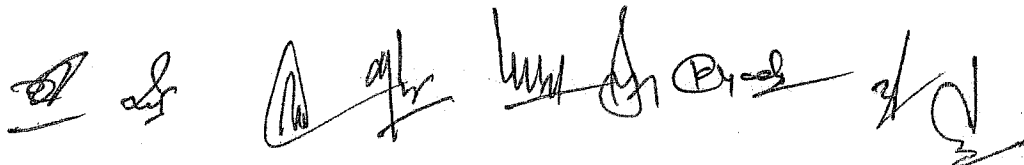
- a. High protection engineered soft plastic or any other NABL proven superior material with **Sweat absorbing mesh fabric (Detachable & washable)** inner protection with a unique flexible design for optimum movement, fit and comfort **suitable to human body parts shape.**
- b. Velcro fixed.
- c. **Inter stichable so as to remain in place and not slip.**
- g. **All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air**

5. Shoulder Pad (15 cm±10%)

- a. Velcro fixed.
- b. High protection engineered soft plastic or any other NABL proven superior material with a unique flexible design for optimum movement, fit and comfort.
- c. Poly foam (preferably 3mm thickness) with specified (35-40) Shore A hardness and black mesh fabric that covers the chest and back.
- d. High protection engineered soft plastic with shock absorbing EVA Polyfoam cushioning the shoulder.
- e. Inner lining made of mesh sweat absorbing fabric (detachable & washable).
- f. **Inter stichable so as to remain in place and not slip.**
- g. **All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air.**

6. Groin :-

- a. Section has an outer shock absorbing **Sweat absorbing mesh fabric (detachable & washable)** padding (plastic/ EVA/ poly foam) along with hard shell cap or any other **NABL proven superior material.**
- b. The protection attachment should cover the groin area from all ricocheted projectiles and allow a comfortable sitting.
- c. **Inter stichable so as to remain in place and not slip.**
- d. **All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air**



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7. Forearm & Elbow Guard (37 cm±10%)

- a. High protection engineered soft plastic outer shell **or any other NABL proven superior material** should provide flexibility required for forearm and elbow.
- b. Shock absorbing poly foam with minimum specified (Maximum 5mm) thickness and black mesh(**detachable & washable fabric**) lining which offers comfort and breathability
- c. Adjustable straps fastening with durable elastic and Velcro
- d. High protection engineered soft plastic of minimum specified standard thickness (Preferably 2.5-3.5mm) so that it does not lose its flexibility with higher padding **or any other NABL proven superior material.**
- e. **Inter stichable so as to remain in place and not slip.**
- f. **All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air.**

8. Thigh Guard (44cm±10%)

- a. Thigh guard must be supported by kamarbandh to avoid slippage while running and during movement
- b. High protection engineered unbreakable plastic of 2.5 to 04 mm thickness on thigh section.
- c. EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material with minimum 4.5 mm thickness and mesh lining (**detachable & washable fabric**)for comfort and breathability.
- d. Adjustable straps fastening with durable elastic and Velcro.
- e. Length:- 146.5±10%
- f. **Inter stichable so as to remain in place and not slip.** A fire retardant drill cloth (**detachable & washable fabric**) jacket with fire retardant and polycarbonate inserts in front and back pouches. Two shin guards having high resistant unbreakable plastic inserts.
- g. **All sandwiches paddings of soft plastic with EVA (Ethylene and vinyl Acetylene based Polymer) foam or any other technically better test proven material, should have number of small holes for free movement of air.**

[Handwritten signatures and initials]