




REVIEW OF QRs/ SPECIFICATION OF DISPOSABLE HANDCUFF


1. Equipment Name: Disposable Handcuff

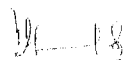
Sl. No	Qualitative Requirement/ Specifications	
1	Material	Nylon/ Polyamide, when tested in accordance with IS 667 & IS 2005.
2	Length	210 mm + 15 mm
3	Width	7 mm + 1 mm
4	Thickness	2 mm +10%
5	Locking system	Non Reversible locking system
6	Tearing strength	More than 140 Kg, when tested in accordance with IS 7016 Part-2, Method-A2 (Double tongue tear methods)
7	Weight	25 gms +10%
8	Fabric	Fabric should be of bright colour for easy identification of handcuffed person.
9	Cutter for cutting Disposable Handcuffs	The cutter should be provided with the Disposable Handcuff with a key ring for safe holding. Covered cutter edge should be provisioned for to prevent any injury while manipulation.
10	Certification	Certification: Various tests shown above are done at following laboratories i) NITRA, Ghaziabad(UP) ii) Any other NABL approved laboratory having scope of above parameters.
11	Life	05 Yrs.


(Mohan Mathpal)
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(D.K. Choudhary)
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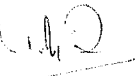

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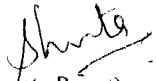

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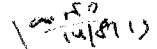

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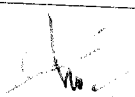

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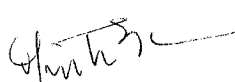
TRIAL DIRECTIVES OF DISPOSABLE HANDCUFF


1. EQUIPMENT NAME: DISPOSAL HANDCUFF


Sl.No	Specification	Trial Directives
1.	Material - Nylon/ Polyamide	As per IS 667 & IS 2005 To be physically measured by the BOO
2.	Length - 210 mm ± 15mm	
3.	Width - 07 mm ± 1mm	
4.	Thickness - 02 mm ± 10%	
5.	Non Reversible locking system	To be demonstrated by the firm and physically checked on ground by the BOO.
6.	Minimal tearing strength must be more than 140 Kgs	As per IS 7016 Part-2, Method-A2 (Double tongue tear methods)
7.	Weight - 25 gms ± 10%	To be physically measured by the BOO
8.	The colour of in fabric should be bright as per requirement of user	To be physically checked on ground by the BOO
9.	Certification	Certification : Various tests shown in the QRs are done at following laboratories: i) NITRA, Ghaziabad(UP) ii) Any other NABL approved laboratories having scope for parameter mentioned in QRs



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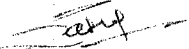

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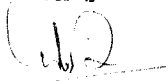

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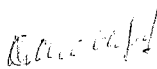

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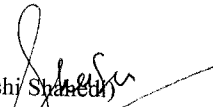
4. Equipment Name: Baton


Specification:


- 1. Length : 35 inch \pm 1 inch
- 2. Wt. (with coard) : 600 gm \pm 15 gm
- 3. Baton diameter : 31 mm \pm 5 mm
- 4. Handle Length (Shield upper slope to top end protrusion) : 130 \pm 5 mm
- 5. Handle Diameter : 30 mm \pm 5 mm
- 6. Material : Highly resistant polypropylene or any other proven superior material.
- 7. Holder Material : Unbreakable polyamide (nylon) holder with nylon textile strap.
- 8. Life : 05 yrs.


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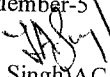

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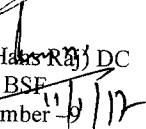

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

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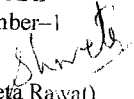

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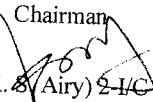

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2.

EQUIPMENT NAME: BATON

Sl.No	Specification	Trial Directives
1	Length :- 35 inch \pm 1 inch	To be physically measured on ground using weighing machine and vernier caliper and scale by the BOO
2	Wt. (with coard) :- 600 gm \pm 15 gm	
3	Baton diameter :- 31 mm \pm 5 mm	
4	Handle Length (Shield upper slope to top end protrusion) :- 130 \pm 5 mm	
5	Handle Diameter :- 30 mm \pm 5 mm	
6	Material :- Highly resistant polypropylene or any other proven superior quality.	NABL lab test certificate/report is to be given by the OEM
7	Holder Material :- Unbreakable polyamide (nylon) holder with nylon textile strap.	To be demonstrated by the firm and physically checked on the ground by the BOO

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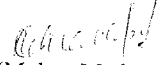
3. Equipment Name : Tactical Periscope


A device for viewing the activities of the unruly mob from small gullies/ lanes/ streets without exposing the viewer. The Periscope must be made with a anodised aluminium alloy, highly polished glass prisms and glass lenses coated with black/dark colour powder. The eyepiece rubber cup can be folded back for use with glasses.

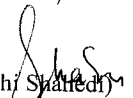
Material - High quality aluminium alloy and highly polished glass prisms and lenses coated with black/ dark colour powder.


Specifications :


Magnification	:	4X to 9X
PERISCOPE weight	:	should not more than 600 gms
4X field of view	:	9.5°
Flashlight attachment	:	35 g ± 2 g
9X field of view	:	5°
Focus distance at 4X	:	18" to infinity
Focus distance at 9X	:	8 feet to infinity
Height Advantage	:	Not less than 22 inch
Eyepiece dioptr range	:	± 5 dioptr
Extended with handle	:	28.5 inch ± .5 inch
Exit pupil diameter	:	0.2 inch to 0.09 inch
Length Retracted(without handle)	:	17.5 inch ± .5 inch
Test Life	:	Drop test 06 Yrs.



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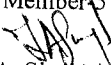

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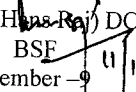

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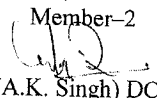

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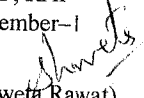

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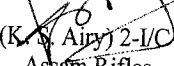

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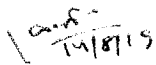

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EQUIPMENT NAME: TACTICAL PERISCOPE

Sl. No	Specification	Trial Directives
	Material-High quality aluminium alloy and highly polished glass prisms and lenses. Magnification: 4x to 9x 4x filed of view: 9.5° PERISCOPE weight :580 gms 20% 9X field of view: 5° Focus distance at 4x:18" to infinity Focus distance at 9x:8 feet to infinity Height advantage: not less than 22 inch Eyepiece dioptr range: ±5 diopter Exit pupil diameter :0.2 inch to 0.09 inch Extended with handle: 28.5 inch ± 05 inch Length /Retracted(without handle); 17.5 inch ± 05 inch	Certificate to be provided by the OEM from a NABL approved labs. To be physically measured by the BOO using vernier callipers, & weighing machines.

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 DIGP (Prov & Accts)
 Member-2

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 (K. S. Bhandari)
 IGP, RAF
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 Member-7

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5.

Equipment Name: SHOCK SHIELD

Sl. No	Specification	TDs
1	Height-900mm±110% Width-600 mm±10% Thickness - 4mm ±10% Weight- 4.2 kg±10% Colour- Transparent Input-2kv(approx.) Maximum duration of impulse-Not greater than 1 mille second Maximum quantity of electricity per impulse less than 1 mille coulombs	To be physically measured by the BOO using vernier callipers & weighing machines
2	Material- Made from international quality tough PC sheet durable against shocks high chemical resistance, heat resistance, ultra violet protection, to increase the safety of operational staff (Operating Officer)	Certificate to be provided by the OEM from a NABL approved Lab.
3	High voltage (Electro shock system of minimum 30 minutes continue operation-backed up with research data/biological studies on usage safety causing no permanent neuromuscular incapacitation), Non-lethal, safe but effective electrostatic shock conduction via securely fitted conductors all over the front area of the shield without obstructing the view of the handler.	Certificate to be provided by the OEM from a NABL approved Lab.

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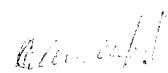
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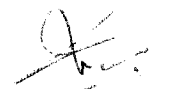
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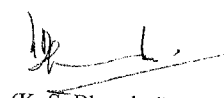
4	Guard in full control with press button operation situated on moulded handle as well as on/off indication light emitting diode.	To be demonstrated by the firm and physically checked on the ground by BOO.
5	Safety wrist strap which automatically activated warning siren and simultaneously renders shield harmless if shield is disarmed.(Optional)	Certificate to be provided by the OEM from a NABL approved Lab. To be demonstrated by the firm and physically checked on the ground by BOO.
6	Visible shock sparks act as an added deterrent.	Certificate to be provided by the OEM from a NABL approved Lab. To be demonstrated by the firm and physically checked on the ground by BOO.
7	Clear polycarbonate shields, offering protection against thrown objects.	To be demonstrated by the firm and physically checked on the ground by BOO
8	Fully rechargeable including nickel-cadmium rechargeable battery of 12 volts(650 mille ampere) with built in charfger as well as indicators with on off switch. AC/DC charger of 320/110 volts AC. Once fully charged must last for minimum of 7000 qtr second burst.	Certificate to be provided by the OEM from a NABL approved Lab.
9	Optional multi charging stand that holds and charge upto five shields simultaneously.	Certificate to be provided by the OEM from a NABL approved Lab. To be demonstrated by the firm and physically checked on the ground by BOO.
10	Scaled detachable electronic housing for easy maintenance	To be demonstrated by the firm and physically checked on the ground by BOO
11	Ergonomically designed handle with compact clamping arm which allow a controlled manoeuvring in all directions.	

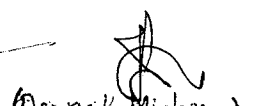

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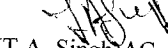

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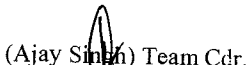

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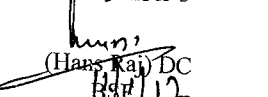

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 DIGP (Prov & Accts)
 Member-2



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 IGP, RAF
 Member-1

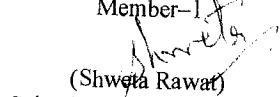

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 SDG, CRPF
 Chairman

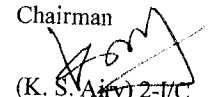

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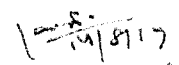

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 Member-7


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 Member -6

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5. Equipment Name: SHOCK SHIELD

Specification:

- Height : Not more than 900 mm ± 10%
- Width : Not more than 600 mm ± 10%
- Thickness : Not more than 4 mm ± 10%
- Weight and Life : Not more than 4.2 kg ± 10% and 05 yrs. (Battery - 02 yrs.)
- Colour : Transparent
- Input : 220/110 Volts a/c 50 Hz/60Hz
- Maximum duration of impulse : Not greater than 1 milli second
- Maximum quantity of electricity per impulse : less than 1 milli coulombs
- Material- Made from international quality tough PC sheet durable against shocks high chemical resistance, Heat resistance ultra violet protection, to increase the safety of operation staff (Operating Officer)

Features:

1. High voltage (Electro shock system of minimum 30 minutes continue operation-backed up with research data/biological studies on usage safety causing no permanent neuromuscular incapacitation) Non lethal ,safe but effective electrostatic shock conduction via securely fitted conductors all over the front area of the shield without obstructing the view of the handler.
2. Guard in full control with press button operation situated on moulded handle as well as on/off indication Light Emitting Diode.
3. Safety wrist strap which automatically activates warning siren and simultaneously renders shield harmless if shield is disarmed. (optional)
4. Visible shock sparks act as an added deterrent.
5. Clear polycarbonate shields, offering protection against thrown objects.
6. Fully rechargeable including nickel-cadmium rechargeable battery of 12 volts (650 milli ampere) with built i charger as well as indicators with on off switch. AC/DC charger of 220/110 volts AC. Once fully charged should continuously operate the shock for up to 01 hour 30 minutes or up to 7000 qtr second burst. Standby time approx 35 hour.
7. Optional multi charging stand that holds and charge up to five shields simultaneously.
8. Scaled detachable electronic housing for easy maintenance.
9. Ergonomically designed handle with compact clamping arm which allows controlled manoeuvring in all directions.

<p>(Mohan Mathpal) AD(Prov), SSB Member-5</p>	<p>(Sanjay Sharma) PSO(W), BPR&D Member-4</p>	<p>(Shashi Sharma) Comdt. (Prov & Accts) Member-3</p>	<p>(D.K.Choudhary) DIGP (Prov & Accts) Member-2</p>	<p>(K. S. Bhandari) IGP, RAF Member-1</p>	<p>(Dipak Mishra) IPS SDG, CRPF Chairman</p>
<p>(T.A. Singh) AC ITBP Member -12</p>	<p>(Ajay Singh) Team Cdr. NSG Member -10</p>	<p>(Hemraj) DC BSP Member -11</p>	<p>(A.K. Singh) DC RAF Hqr. Member -8</p>	<p>(Shweta Kawat) Scientist -D, DIPAS/ DRDO Member-7</p>	<p>(K. S. Arty) 2-IC Assam Rifles Member -6</p>

Approved / Not General

1/11/17
Director General