

Inter Office Note
(Provisioning Branch)

P-SPD2881
3/11/22

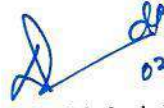
No.L.VII-2/2019-21-Prov-DA-5

Dated, the 2 Nov, 2022

Subject :- Uploading of QRs/Specification and Trial Directive on CRPF website.

Please find enclosed herewith scan^{ed} copy of approved QRs/Specification and Trial Directives of **Polycarbonate Shield and Lathi (For mahila personnel)** (through selo mail) alongwith soft copy for uploading the same in CRPF website for further needful.

Encl:- as above

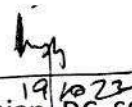

(D. N. Lal)
DIG(Prov) Dte.

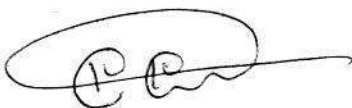
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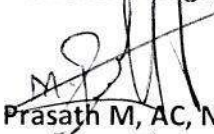
**QUALITATIVE REQUIREMENTS (QRS)/ SPECIFICATION OF
MAHILA POLYCARBONATE SHIELD**

SL No	Name	QR specifications		Trial Directives
1.	Nomenclature	Mahila Polycarbonate Shield		
2.	Uses	(i) Mahila polycarbonate shield shall be used by Mahila troops during their deployment in riot or riot like situations. It is important protective equipment for Mahila troops when deployed for handling riotous situation. (ii) Polycarbonate shield for Mahila troops has to be light weight with shock absorption capabilities, good quality material and fire resistant for handing crowd with varying degree of hostility. Besides that it must be able to protect the whole body of Mahila from injuries due to impact, blow from blunt objects, brick batting, Lathi blow, stone pelting, projectile/missile, acid bulbs Molotov's cocktails and industrial chemical thrown at her. A standard protective shield is therefore required for Mahila troops.		
3.	Colour	Colourless		To be checked by BOO/Line committee
4.	Transparency	1. Not less than 83% 2. Vision area should be plain for clear vision		
5.	Weight	2.9 kg to 3.0 kg		
6.	Shape	Rectangular curved shape, corrugated vertically for structural strength and stiffness.		
7.	Dimensions	Length	920 mm (±20 mm)	
		Breadth (flat)	560mm (±10 mm)	
		Breadth (curve)	590mm (±10 mm)	
		Thickness	3mm (Minimum)	
		Arm Strap width	40mm	


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Prasath M, AC, NSG

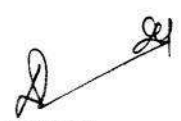

Kamlesh Kumar Sharma, AC ITBP


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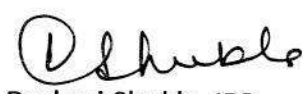

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Chairman

8.	Material	i) The polycarbonate sheet shall be made of high impact resistant/ natural polycarbonate material it may contain additives, processing aids and stabilizers (e.g. UV absorber) ii) The entire fitment should be riveted on reinforced polycarbonate shield. iii) The material used for manufacture of Polycarbonate sheet shall comply with the requirements as per column-3 when tested as per the prescribed IS of column- 4 in the table below :				Certification from any NABL accredited Lab for the test conducted as per IS specified at column-4 with results as per values shown in column-3 (a),(b) , (c), (d) & (e) of the table at SI no 8.
		Sl. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx	
		(a)	Melt Flow Index, gram/10 min. (at 300° C under 1.2 Kg load when measured after pre-drying of the material at 120 ± 5°C upto 4 hrs.)	i)1.5 to 8 (for extrusion/ Thermoforming) ii)8 to 15 (for injection moulding)	IS 13360 (Part 4 / Sec 1)	
		(b)	Specific Gravity	1.19 to 1.22	IS 13360 (Part 3 Section 1)	
		(c)	Flexural Modulus, Min, Mpa (With crosshead speed of 1.2 mm/min and a span to depth ratio of 16 to 1 (test specimen size, 04 mm x 10 mm)	2200	IS 13360 (Part 5 Section 7)	
		(d)	Izod Impact Strength , notched , min, kJ/m ² (test specimen thickness of 03 mm and notch radius of 0.25 mm)	60	IS 13360 (Part 5 Section 4)	
		(e)	Deflection Temperature under load at 1.82 MPa, Min, °C	120	IS 13360 (Part 6 Section 17)	

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9.	Polycarbonate sheet characteristics	(i) Poly carbonate sheet formed from the above specified material shall comply with the requirements as per column-3 when tested as per the prescribed IS of Column- 4 in the table below:- <table border="1"> <tr> <th>Sl. No.</th><th>Characteristics</th><th>Requirement</th><th>Method of test, Ref to IS/Annx</th></tr> <tr> <th>(1)</th><th>(2)</th><th>(3)</th><th>(4)</th></tr> <tr> <td>(a)</td><td>Dart drop Impact, Minimum J (at 27degree C)</td><td>150</td><td>Annx B of IS 14443</td></tr> <tr> <td>(b)</td><td>Light Transmission, percent, Minimum</td><td>83</td><td>IS 13360 (Part -9 Section - 5)</td></tr> <tr> <td>(c)</td><td>Flammability Test (test specimen thickness 3.18 mm +/- 0.13 mm)</td><td>94 HB class</td><td>IS 13360 (Part – 6 Section – 5)</td></tr> </table> (iii) The Poly carbonate body of the Shield shall have abrasion resistance surface coating on both surfaces. (iv) Sheet shall be corrugated (for strength enhancement) except for area defined for higher visibility as per the design specified, with one third of total shield length, in upper extremity.(Refer to figure) (v) At bottom side of the shield there should be tapering of 5cm from both edges with a height of 27cm. (Refer to figure)	Sl. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx	(1)	(2)	(3)	(4)	(a)	Dart drop Impact, Minimum J (at 27degree C)	150	Annx B of IS 14443	(b)	Light Transmission, percent, Minimum	83	IS 13360 (Part -9 Section - 5)	(c)	Flammability Test (test specimen thickness 3.18 mm +/- 0.13 mm)	94 HB class	IS 13360 (Part – 6 Section – 5)	Certification from any NABL accredited Lab for the test conducted as per IS specified at column -4 with results as per values shown in column – 3 (a), (b), (c), (d) & (e) of the table at the Sl no. 9
Sl. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx																				
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10.	Handle/Arm Rest Characteristics	i) Cushioned arm rest shall be provided for comfort during long time use. Same should be covered by the cotton cloth. ii) Grips and supports must allow the user to comfortably hold and position the polycarbonate protective shield. iii) The rectangular cushioned arm rest has following dimension: <table><tr><td>Length</td><td>18 inches</td></tr><tr><td>Width</td><td>6 inches</td></tr><tr><td>Thickness</td><td>20 mm</td></tr></table> iv) General requirement of handle:- (a) Manufacturing process for handle should be =Gas-Assisted Injection Moulding (GAIM). (b) Material for handle should be polymeric, preferably polycarbonate (c) Elastomeric bushed and washer system to be used for nut and bolt system.	Length	18 inches	Width	6 inches	Thickness	20 mm	To be checked by BOO/Line committee.
Length	18 inches								
Width	6 inches								
Thickness	20 mm								
11.	Performance requirements of PC shield	(a) Resistance to vandalism:- (i) Pc shield is to provide complete protection against brick batting, stone pelting, iron rod and cane attack. (ii) The polycarbonate body of shield shall have impact resistance of level "A3" when tested for vandal resistance as per the method prescribed in Annex of IS14443. (b) Resistance to surface penetration: The polycarbonate body of the shield shall have resistance of level 'B3' against penetration when tested for resistance to forced entry as per the test method prescribed in Annex of IS1443 (c) Resistance to surface Abrasion: The resistance of polycarbonate shield to surface abrasion shall be tested in accordance with ASTM D 1044 for 100 cycles under 500g load. Haze of test specimen shall not be more than 20percent (d) Resistance to Environmental Stress Cracking: Environment Stress cracking Resistance(ESCR) Test shall be performed on polycarbonate body of the shield (with protective coating) by constant strain method as per IS 13360(Part8/Sec9)	Certification from any NABL accredited LAB for the test prescribed in Annex C of IS 14443 Certification from any NABL accredited LAB for the test prescribed in Annex D of IS 14443 Certification from any NABL accredited LAB for the test prescribed in ASTM D1044 Certification from any NABL accredited LAB						

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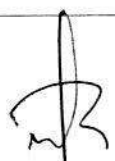
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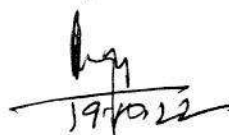
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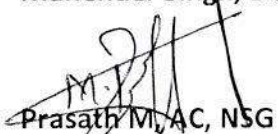
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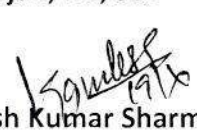
12	Shelf life	Six (6) years (minimum)	
13	Miscellaneous	(i) Two clutches on each side (both left and right) to be placed on inside surface of shield for holding lathi. (ii) A strap should be given for hanging shield from backside. (iii) The shield should be amphidextrous (as per the design specified) such that it is user friendly for the left handed as well as the right handed individuals. (iv) Female insignia nearby handle shall be provided as marking for being identified as Mahila PC shield.	To be checked by BOO/Line committee


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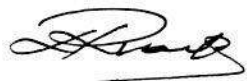

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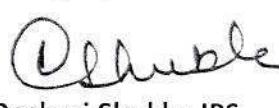

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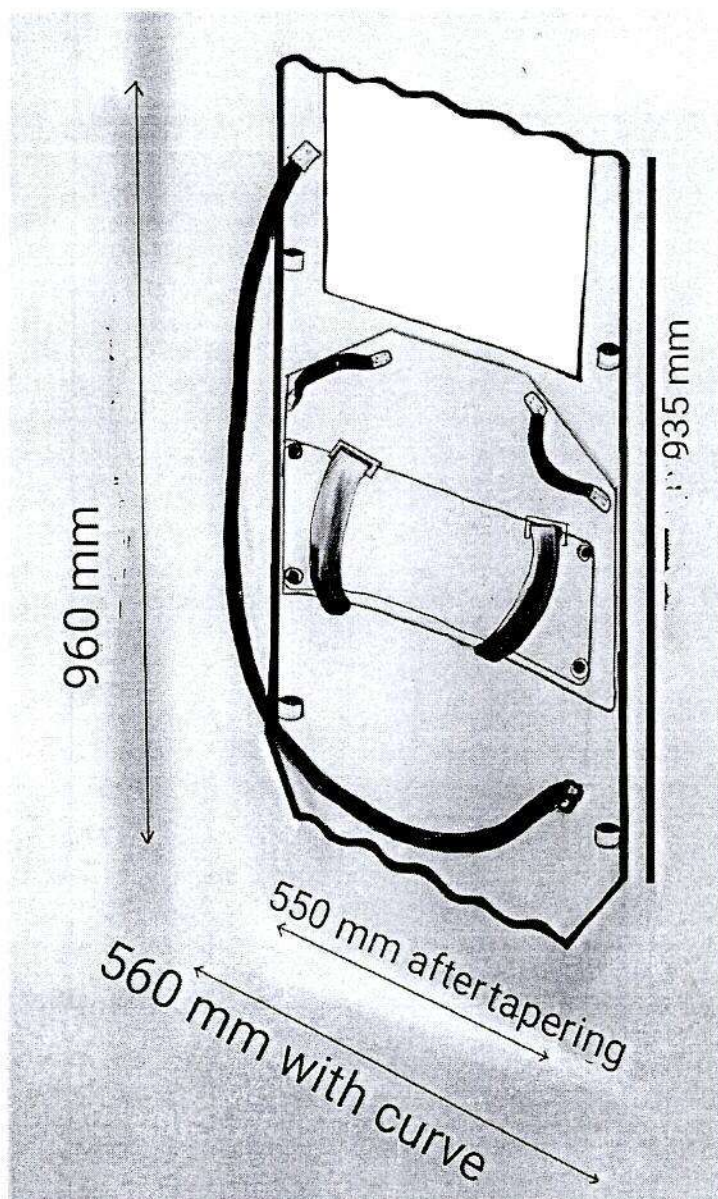

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Approved/Not Approved

(Dr.Sujoy Lal Thaosen) IPS
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MAHILA POLYCARBONATE SHIELD



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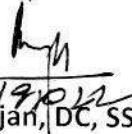
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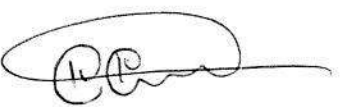
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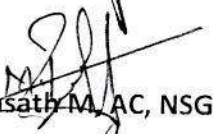
**QUALITATIVE REQUIREMENTS (QRS)/ SPECIFICATION OF
MAHILA POLYCARBONATE LATHI**

S. no.	Name	QR Specifications		Trial Directives
1.	Nomenclature	Mahila Polycarbonate Lathi		
2.	Uses	1) Mahila PC Lathi shall be used by Mahila troops during their deployment. It is self defence equipment for troops during their deployments in Riots or Riot like situations. 2) PC Lathi for Mahila troops required to be light weight and made of good quality material. It should have the resistance, flexible and easy to carry.		
3.	Colour	Should be Black		To be checked by BOO/Line Committee
4.	Weight	290-300 gm		
5.	Carriage	Hand Held / Integrated into polycarbonate shield		
6.	Shelf life	06 years (polycarbonate part minimum) Operational Life of LED: Approx 24hrs upon charging once Life of Continuous Spark:30minutes(minimum) Life of Battery: Minimum 1000charging cycles		
7.	Shape	Cylindrical shape.		
8.	Dimensions	Diameter	Inner :19mm Outer:25mm	
		Length	900 mm with tolerance + 15 mm and - 10mm including handgrip and shoe.	
		Wall thickness	3mm	


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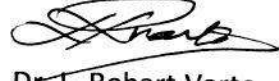

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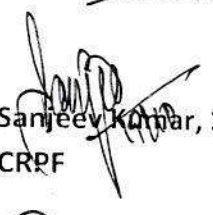

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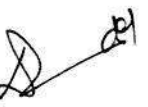

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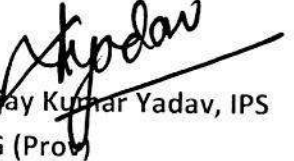

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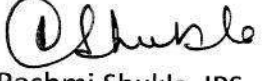

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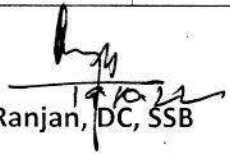

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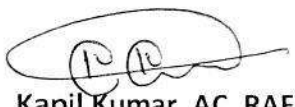

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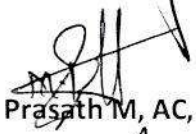

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9.	Materials of construction	1) The main body of polycarbonate lathi shall be made of high impact resistant/ natural polycarbonate material. It may contain additives, processing aids and stabilizers (for example UV absorbers). 2. The material used for manufacture of polycarbonate sheet shall comply with the requirements as per column-3 when tested as per the prescribed IS of Column – 4 <table border="1" data-bbox="414 362 1242 1464"> <thead> <tr> <th>Sl. No.</th><th>Characteristics</th><th>Requirement</th><th>Method of test, Ref to IS/Annx</th></tr> </thead> <tbody> <tr> <td>(a)</td><td>Melt Flow Index, gram/10 min. (at 300° C under 1.2 Kg load when measured after pre-drying of the material at 120 ± 5°C upto 4 hrs.)</td><td>i)1.5 to 8 (for extrusion/ Thermoforming) ii)8 to 15 (for injection moulding)</td><td>IS 13360 (Part 4 / Sec 1)</td></tr> <tr> <td>(b)</td><td>Specific Gravity</td><td>1.19 to 1.22</td><td>IS 13360 (Part 3 Section 1)</td></tr> <tr> <td>(c)</td><td>Flexural Modulus, Min, Mpa (With crosshead speed of 1.2 mm/min and a span to depth ratio of 16 to 1 (test specimen size, 04 mm x 10 mm)</td><td>2200</td><td>IS 13360 (Part 5 Section 7)</td></tr> <tr> <td>(d)</td><td>Izod Impact Strength , notched , min, kJ/m² (test specimen thickness of 03 mm and notch radius of 0.25 mm)</td><td>60</td><td>IS 13360 (Part 5 Section 4)</td></tr> <tr> <td>(e)</td><td>Deflection Temperature under load at 1.82 MPa, Min, °C</td><td>120</td><td>IS 13360 (Part 6 Section 17)</td></tr> </tbody> </table>	Sl. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx	(a)	Melt Flow Index , gram/10 min. (at 300° C under 1.2 Kg load when measured after pre-drying of the material at 120 ± 5°C upto 4 hrs.)	i)1.5 to 8 (for extrusion/ Thermoforming) ii)8 to 15 (for injection moulding)	IS 13360 (Part 4 / Sec 1)	(b)	Specific Gravity	1.19 to 1.22	IS 13360 (Part 3 Section 1)	(c)	Flexural Modulus , Min, Mpa (With crosshead speed of 1.2 mm/min and a span to depth ratio of 16 to 1 (test specimen size, 04 mm x 10 mm)	2200	IS 13360 (Part 5 Section 7)	(d)	Izod Impact Strength , notched , min, kJ/m ² (test specimen thickness of 03 mm and notch radius of 0.25 mm)	60	IS 13360 (Part 5 Section 4)	(e)	Deflection Temperature under load at 1.82 MPa, Min, °C	120	IS 13360 (Part 6 Section 17)	Certification from any NABL accredited Lab for the test conducted as per IS specified at column-4 with results as per values shown in column-3 (a), (b), (c), (d) & (e) of the table at SI No 8.
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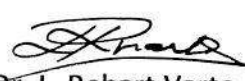

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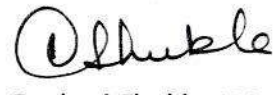

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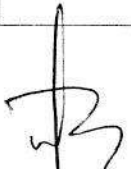

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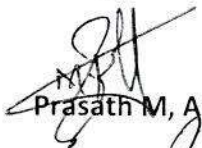

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10.	Polycarbonates sheet characteristics	1)Polycarbonate sheet formed from the above specified material shall comply with the requirements as per column-3 when tested as per the prescribed IS of Column-4 in the table below:- <table> <tr> <th>Sl. No.</th><th>Characteristics</th><th>Requirement</th><th>Method of test, Ref to IS/Annx</th></tr> <tr> <td>(1)</td><td>(2)</td><td>(3)</td><td>(4)</td></tr> <tr> <td>(a)</td><td>Dart drop Impact, Minimum J (at 27degree C)</td><td>150</td><td>Annx B of IS 14443</td></tr> <tr> <td>(b)</td><td>Light Transmission, percent, Minimum</td><td>83</td><td>IS 13360 (Part -9 Section - 5)</td></tr> <tr> <td>(c)</td><td>Flammability Test (test specimen thickness 3.18 mm +- 0.13 mm)</td><td>94 HB class</td><td>IS 13360 (Part – 6 Section – 5)</td></tr> </table>	Sl. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx	(1)	(2)	(3)	(4)	(a)	Dart drop Impact, Minimum J (at 27degree C)	150	Annx B of IS 14443	(b)	Light Transmission, percent, Minimum	83	IS 13360 (Part -9 Section - 5)	(c)	Flammability Test (test specimen thickness 3.18 mm +- 0.13 mm)	94 HB class	IS 13360 (Part – 6 Section – 5)	
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(b)	Light Transmission, percent, Minimum	83	IS 13360 (Part -9 Section - 5)																				
(c)	Flammability Test (test specimen thickness 3.18 mm +- 0.13 mm)	94 HB class	IS 13360 (Part – 6 Section – 5)																				
11.	(a) Protective Shoe/Stud specifications (b) Handgrip (c) Wrist band	(i) Length 25mm +/- 5mm. Ring shape, (ii) Properly fixed with lathi, firm, fire and water resistant. (iii) Made of Polymeric/Fibre or Rubber. (iv) Water should not be able to enter from bottom side., when used in zones with water clogging, puddles, etc (i) Length 14cm +/- 10 mm. (i) A wrist band made of cotton/ nylon shall be providing on the top of handgrip for providing security from lathi snatching. (ii) Length- loop diameter should be 6 to 8 inch	1)To be check by BOO/ Line committee 2) Certificate from any NABL accredited alb for fire/Water resistant of hand grip and protective shoe																				



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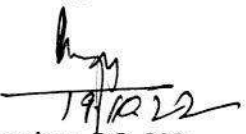
Prasath M, AC, NSG



Nb/Sub Balwan Singh, AR



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Sanjeev Kumar, 2-I/C
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Rashmi Shukla, IPS
ADG (HQR), CRPF
Chairman

12.	Performance requirements of Mahila PC Lathi	(a)Resistance to Environmental Stress Cracking:- Environment Stress Cracking Resistance (ESCR) test shall be performed on polycarbonate body of the Lathi (with Protective coating) by constant strain method as per IS 1336(Part 8/Sec 9).	Certificate from any NABL accredited Lab
		(c)Resistance to Surface Abrasion:- The resistance of Polycarbonate lathi to surface abrasion shall be tested in accordance with ASTM D 1044 for 100 cycles under 500g load. Haze of test specimen shall not be more than 20 percent.	

As specified in the figure, the Mahila Polycarbonate Lathi has some added features by means of its electrical components, providing better deterrence against violent mob.

The Lathi comes well equipped with features meant to deter and discourage the mob and mischief mongers, with its electrical discharge making a buzzing noise, threatening the approaches around. Also it contains a charged source (battery) that comes with inbuilt charger for easy recharging.

The details of the same are as follows:

SPECIFICATIONS FOR ELECTRICAL COMPONENTS

1. Power Supply	3.7 Volts 3000 mAh, Lithium ion rechargeable Cell
2. Resistance Wires Glass Sleeves Output Wire Push Buttons	100 Ohms (2 Nos.) 0.5 sq mm multi strand copper core flexible insulated 3 Types with different ID 1.0 mm, (19 G) super enamelled Copper 12 * 12 * 10 MM
3. Operational Life of LED Life of Continuous Spark Life of Battery	APPROX. 24 HRS. CONTINUOUS 30 Minutes (Minimum) Minimum 1000 charging cycles.
4. Hand Grip, Wire Separator & Bottom Shoe Material	Through Injection Moulds Polycarbonate (Virgin)
5. Baton Material	POLYCARBONATE PIPE
6. Sizes: As Per Drawings Enclosed	Attached

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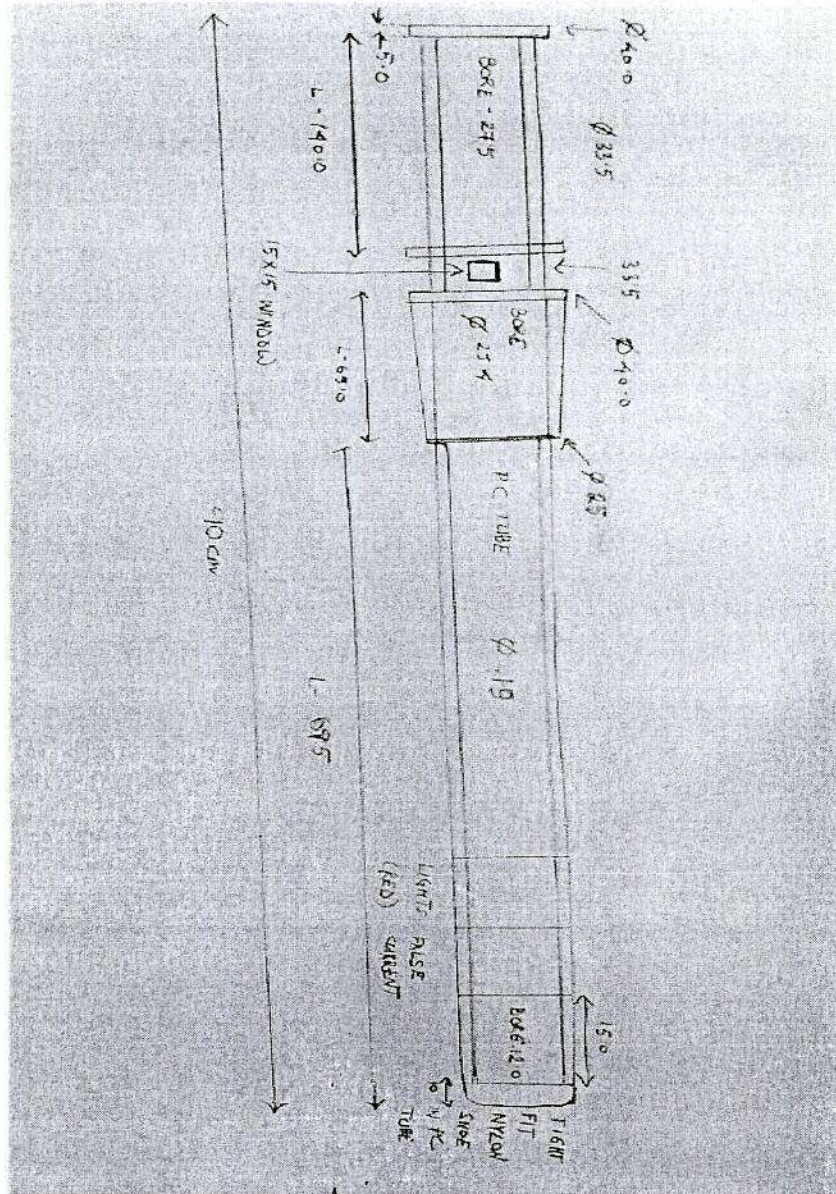
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Approved/Not Approved

(Dr.Sujoy Lal Thaosen) IPS
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DIPAS MAHILA POLYCARBONATE LATHI



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