## DIRECTORATE GENERAL, CRPF BLOCK NO.1, CGO COMPLEX, LODHI ROAD, NEW DELHI-03 (Bharat Sarkar/Grih Mantralaya) Tele- 011-24360155/Fax-011-24360155)

### No.L.VII-15/2022-23-Prov-DA-5

Dated, the 12 /09/2022

### **Expression Of Interest Notice**

Tender No.	::	L.VII-15/2022-23-Prov-I-DA-5(Part-I)
Publish Date	::	13 <sup>th</sup> Sept, 2022
Last date of submission	::	28 <sup>th</sup> Sept, 2022.

<u>Description</u> :: Expression of interest for procurement of Poly Carbonate Shield & Lathi for mahila personnel in CRPF. QRs/Specifications at Directorate General, CRPF, Lodhi Road, New Delhi vide L.VII-15/2022-23-Prov-DA-5 (Part-I) published dated 12<sup>th</sup> Sept, 2022, last receipt date 28/09/2022 at 1600 hrs. E-mail:digprov@crpf.gov.in, Fax: 24360155 as per details given at attached proposal.

Attachments :- Copy of EOI, scanned copy of draft QRs/Specifications of the subject item.

Sd/-12/09/2022 (D.N.Lal) DIG (Prov) Dte.

## **'EXPRESSION OF INTEREST'**

CRPF is in a process of framing QRs of *Poly Carbonate Shield & Lathi* for mahila personnel in collaboration with DIPAS.

2. The draft QRs/Specification of said items are attached herewith.

3. The firms/parties dealing in subject matter are invited to submit their views by 28/09/2022( 28<sup>th</sup> Sept, 2022).

Contact Person:-

D. N. LAL DY. INSPECTOR GENERAL OF POLICE (Provisioning) DTE. GENL., CRPF, LODHI ROAD, NEW DELHI PH: 011- 24360155 FAX: 24360155 EMAIL: digprov@crpf.gov.in

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

i	Name		R Specifications	Trial Directives
1.	Nomenclature	A	a Polycarbonate Lathi	
2.	Uses		Lathi shall be used by Mahila	
		troops during the	eir deployment. It is self defence	
		equipment for tro	pops during their deployments in	
		Riots of	or Riot like situations.	
		2) PC Lathi fo	r Mahila troops required to be	
		light weight and	made of good quality material.	
		It should have the	e resistance, flexible and easy to	
			carry.	
3.	Colour	S.	Should be Black	To be check by
4.	Weight	I	Less than 300gm	BOO/Line Committee
5.	Carriage	Hand Held / Inte	grated into polycarbonate shield	
6.	Shelf life		olycarbonate part minimum)	
			fe of LED: Approx 24hrs upon	
			charging once	
		Life of Continue	ous Spark:30minutes(minimum)	
			Minimum 1000charging cycles	
7.	Shape		ylindrical shape.	
8.	Dimensions	Diameter	Inner :19mm	
	And a second		Outer:25mm	
		Length	900 mm with tolerance $+15$	
			mm and -10mm including	
			handgrip and shoe.	
		Wall thickness 3mm		
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		MEENAL RIS	PASSI Shirm Dw. Bls	red Chandry Shelphar
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N/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ALCENAL A	PA-SS) Shirrm Dus Bis	nd.
N/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ALEENAL RIS D D TINSVV	PA-SCI Shirm Duo Bis L	Kamat WLR.VAK
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N/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ALEENAL RIS D D TINSVV	PA-SCI Shirm Duo Bis L	Kanat MLR.VAKS

9.	Materials of construction	resis 2. Th	e main body of polycarbona tant/ natural polycarbonate processing aids and stabilize ne material used for manuf ply with the requirements a the prescribe	Certification from any NABL accredited Lab for the test conducted as per IS specified at column- 4 with results as per		
		SI. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx	values shown in column 2 (a), (b), (c), (d) & (e) of the
		(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 <u>+</u> 5°C unto 4 brs )	i)1.5 to 8 (for extrusion/ Thermoforming) ii)8 to 15 (for injection moulding)	IS 13360 (Part 4 / Sec 1 )	table at SI No 8.
		(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 <sup>2</sup> (test specimen thickness of 03 mm and notch radius of 0.25 mm)	60	IS 13360 (Part 5 Section 4)	
		(e)	Deflection Temperature	120	IS 13360 (Part	

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10.	Polycarbonates sheet characteristics	materi	lycarbonate sheet fo al shall comply with t ested as per the pres k	he requiremen	ts as per column-3	
		SI. 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)	
11.	(a) Protective Shoe/Stud specifications	(ii) Prope (iii) Mad (iv) W	ength 25mm erly fixed with lathi, f e of Polymeric/Fiber /ater should not be sed in zones with wa	or Rubber. able to enter	from bottom side.	by BOO/ Line committee
	(b) Handgrip		(i) Length	14: <b>c</b> m +/- 10 m	m.	for fire/Water resistant of
	(c) Wrist band	top of	st band made of cott handgrip for providi (ii) Length- loop dian	ng security from	n lathi snatching.	

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12.	Performance requirements	(a)Resistance to Environmental Stress Cracking:- Environment Stress Cracking Resistance (ESCR) test shall be	Certificate from any NABL accredited Lab
	of Mahila PC	performed on polycarbonate body of the Lathi (with Protective	
	Lathi	coating) by constant strain method as per IS 1336(Part 8/Sec 9).	
		(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

The Lathi comes well equipped with features meant to deterr and discourage the mob and mischief mongers, with its electrical discharge making a buzzing noise , threatening the approachers around. Also it contains a charged source (battery) that comes with inbult 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	100 Ohms (2 Nos.)		
	Wires	0.5 sq mm multi strand copper core flexible insulated		
	Glass Sleeves	3 Types with different ID		
	Output Wire	1.0 mm, (19 G) super enamelled Copper		
	Push Buttons	12 * 12 * 10 MM		
3.	Operational Life of LED	APPROX. 24 HRS. CONTINIOUS		
	Life of Continuous Spark	30 Minutes (Minimum)		
	Life of Battery	Minimum 1000 charging cycles.		
4.	Hand Grip, Wire Separator & Bottom Shoe	Through Injection Moulds		
	Material	Polycarbonate (Virgin)		
5.	Baton Material	POLYCARBONATE PIPE		
б.	Sizes: As Per Drawings Enclosed	Attached		

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**DIPAS MAHILA POLYCARBONATE LATHI**