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 th Sept, 2022
Last date of submission	::	28 th 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 12th 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(28th 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 SHIELD

SI	T		CICARBONATE SHIELD					
NJ	ivame	QR	Trial Directives					
1.	Nomenclat	Mahila Po						
2		during their deployment important protective ed deployed for handling riot (ii) Polycarbonate shield for with shock absorption ca fire resistant for handing Besides that it must be Mahila from injuries due brick batting, Lathi blow, bulbs Molotov's cocktails	nield shall be used by Mahila troop t in riot or riot like situations. It is quipment for Mahila troops whe tous situation. Mahila troops has to be light weigh apabilities, good quality material and crowd with varying degree of hostility able to protect the whole body of to impact, blow from blunt objects stone pelting, projectile/missile. acid and industrial chemical thrown at her ield is therefore required for Mahila	is n d /. f f, d .				
с.	Colour	Colourless	*					
л -	Transparen Cy	1	2. Vision area should be plain for clear vision					
5. 6.	Weight Shape	≤3.0 kg	corrugated vertically for structura					
		strength and stiffness.	To be check by					
7.	Dimensions	Length	920 mm (±20 mm)	- committee				
		Breadth (flat) Breadth (curve)	560mm (±10 mm) 590mm (±10 mm)	-				
	N	Thickness	3mm (Minimum)	-				
		Arm Strap width	40mm	-				
<u>М</u> .	BSC ~	Sirist Shreeph Kal	11021n Noweedbarrent 19. Ac Dr. Roweesh K PSO(W) BPR	Vivek Vaid IGP, RAF Chairman				
	MTRAMIT.	MEERAL BIS	PASSI Shirm Dwived Bls	Chandso Shebbar ITBP DOGD				
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8.	Material	and st ii) shield iii) compl	The polycarbonate sheet s al polycarbonate material it abilizers (e.g. UV absorber) The entire fitment should The material used for ma ly with the requirements as ibed IS of column- 4 in the ta	may contain additives be riveted on reinforce nufacture of Polycarbo s per column-3 when t	, processing aids ed polycarbonate onate sheet shall	Certification from any NABL accredited Lab for the test conducted as per IS specified at column-4 with results as per values
		SI. Nō.	Characteristics	Requirement	Method of ८७३८, ह्रिट to IS/Annx	shown in column 2 (a),(b) , (c), (d) & (e) of the table at SI
		(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 upto 4 hrs.)	i)1.5 to 8 (for extrusion/ Thermoforming) ii)8 to 15 (for injection moulding)	IS 13360 (Part 4 / Sec 1)	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 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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Vivek Vaid IGP, RAF Chairman

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9.	Polycarbonate sheet characteristics		materia	arbonate sheet form ial shall comply with tested as per the pro pelow:-	h the requirem	nents as per colu		
			SI. No.	Characteristics	Requirement	Method of test, Ref to IS/Annx		
			(1)	(2)	(3)	(4)		Certification
. The second			(a)	Dart drop Impact, Minimum J (at 27degree C)	150	Annx B of IS 14443		from any NABL accredited Lab for the test conducted as
			(b)	Light Transmission, percent, Minimum	83	IS 13360 (Part -9 Section - 5)		per IS specified at column -4 with results as per values
			(c)	Flammability Test (test specimen thickness 3.18 mm +- 0.13 mm)	94 HB class	IS 13360 (Part – 6 Section – 5)		shown in column – 3 (a), (b), (c), (d) & (e) of the table at the SI no. 9
			Sheet for are specifi extren At bot	ance surface coating shall be corrugated ea defined for highe ied, with one third o mity.(Refer to figure ttom side of the shie both edges with a h (Refer to figure)	d (for strength er visibility as p of total shield e) eld there shou	enhancement) per the design length, in uppe Ild be tapering c	r	
			A C	Shreesh talg SSB	N N	Or Epween	R 20	IGP, RAF Chairman
	V 11K KA) M. I. T.C. NI 34	·····	•	MEENAL PI BIS		Shirm Du	innedi	Chandra Shebha ITTO DOC Libr
	R.S.P.	<u>un</u>	-	L) L) MILLANT	5	1 LA /DEdL	Illan	S STIE

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10	Handle/Arm Rest Characteristi cs	 i) Cushioned arm time use. Same ii) Grips and supp position the po iii) The rectangula 				
		Length	18 i	inches		
		Width	and the second se	iches	To be check by	
	İ				BOO/Line	İ
		Thickness	201	mm	committee.	
		Injection M (b) Material carbonate	ring process for har oulding (GAIM). for handle should be c bushed and washe	ndle should be =Gas-Assisted e polymeric, preferably poly er system to be used for nut		
		(a) Resistance to			Certification	1
				otection against brick batting,	from any NABL	
Ì	ĺ		iron rod and cane at		accredited LAB	
1	1	(ii) The polycarbo	nate body of shield s	hall have impact resistance	for the test	
E.	Performance	of level"A3" w	hen tested for vanda	I resistance as per the	prescribed in	
	requirement	method presc	ribed in Annex of IS14	4443.	Annex C of IS	
11.	s of PC shield				14443	
				The polycarbonate body of	Certification	
				evel'B3' against penetration	from any NABL	ļ.
				ed entry as per the test	accredited LAB	
		method presc	ribed in Annex of IS14	443	for the test	
					prescribed in Annex D of IS	
					14443	
		(c) Resistance to	surface Abrasion: Th	e resistance of	Certification	-
				rasion shall be tested in	from any NABL	
				100 cycles under 500g load.	accredited LAB	
				more than 20percent	for the test	
					prescribed in	
					ASTM D1044]
				s Cracking: Environment	Certification	
	Ω			est shall be performed on	from any NABL	
				with protective coating)by	accredited LAB	
	- The	constant strai	n method as per IS 13	3360(Part8/Sec9)	decredited	0
			- hreither			
	Mahendu	ME Chree	sh Kalg. Ac	P malerela Canon		
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	ACTO	alt Mole	SUD LOAR	CONF'DIPAS	SIE	
	1.31			SCIFIE		

12	Shelf life	elf life Six (6) years (minimum)		
13	Miscellaneous	 (i) Two clutchers 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 check by BOO/Line committee	

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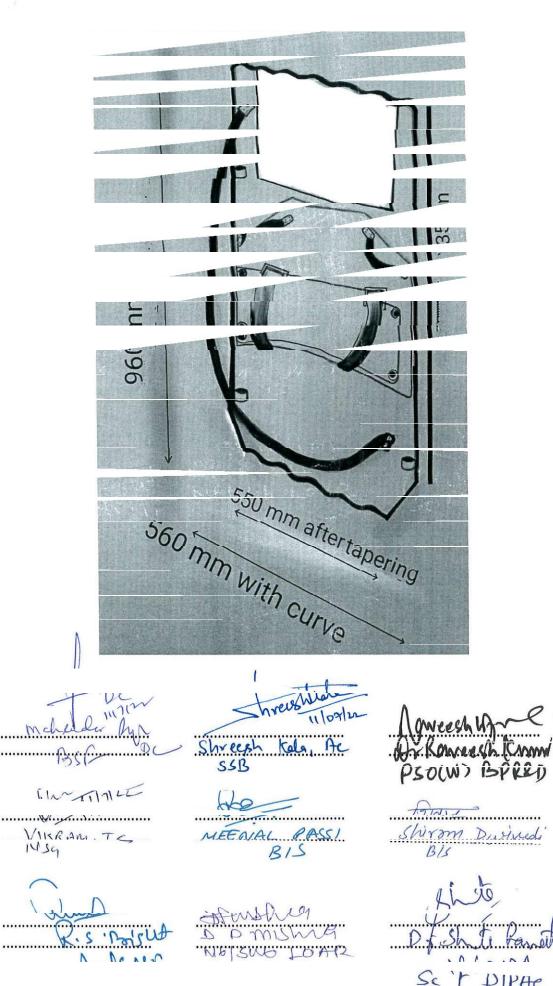
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Chandra Shelinan DCGD LT.BP.

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MAHILA POLYCARBONATE SHIELD



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Vivek Vaid

IGP, RAF

Chandra Shelchan ITAN DC/GD.

Dr. I. ANTE