



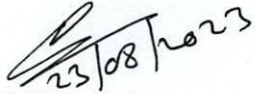
Government of India
Ministry of Home Affairs
Directorate General National Security Guard
(Provisioning Branch/Ord Section)
Mehram Nagar, Palam, New Delhi – 110037
Fax No. 011-25663258/25671639

No : P/604/22/Ballistic Briefcase/Prov/Ord/HQ NSG /14082

Dated : 23 Aug 2023

**FORWARD OF FINAL QUALITATIVE REQUIREMENT (QRs)
AND TRIAL DIRECTIVES (TDs) OF BALLISTIC BRIEFCASE**

The final QRs and TDs of Ballistic Briefcase duly approved by competent authority is forwarded herewith for your information and necessary action please.


(PC Sharma)
Group Commander (Proc)

Enclosures : As above

Distribution :-

1.	JS (PM), MHA, Jaisalmer House, New Delhi	- For information please.
2.	वरिष्ठ तकनीकी निदेशक, रूम न०-10, (IT Cell), एनआईसी, नार्थ ब्लॉक, नई दिल्ली Email : soit@nic.in	- You are requested to upload the same on MHA website in approved QRs/TDs please.
3.	IG/Director (R&D), BPR&D, Mahipalpur, New Delhi Email : igmod@bprd.nic.in/ dd-mod@bprd.nic.in / sushilkumar@bprd.nic.in	
4.	ADG, PP & T, Room No 37, H Block, DGQA, Govt of India, Min of Defence, Department Defence Production, Directorate of Quality Assurance, New Delhi-110011, Email : saarnt-dgqa@gov.in	
5.	DIG (Prov), CRPF, CGO Complex New Delhi, Email : digprov@crpf.gov.in	
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9.	DIG (Prov), SSB, RK Puram, New Delhi, Email : cr.ssbdel@nic.in	
10.	DIG (Prov), Assam Rifle (Through LOAR), Email : loar-mha@nic.in	
11.	JDSR, Room No, 49-T, Directorate of Staff Requirement (DSR) A Block Hutments, Dalhousie Road, New Delhi-11, Email: dsr@navy.gov.in	
12.	Shri Paritosh Singhal, ACEO (GeM), Government of India, Ministry of Commerce & Industry, Government e-Market Place, Jeevan Tara Building, 5 Parliament Street, New Delhi-110011, Email : paritosh.singhal@gem.com.in	
13.	Ops (WE), HQ NSG	
14.	HQ CTF/BD Unit, NSG	

QUALITATIVE REQUIREMENTS (QRs) & TRIAL DIRECTIVES (TDs) FOR BALLISTIC BRIEFCASE (Handheld)

1. Scope

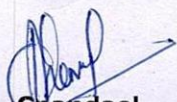
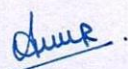
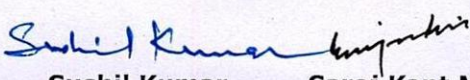
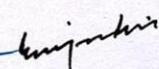
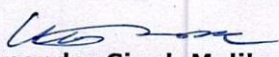
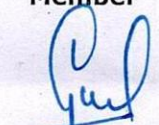
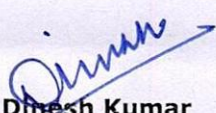


- 1.1 These are generic performance requirements of **Handheld Foldable Ballistic Briefcase** to enable first line protection to the bearer against bullets fired from small arms ammunition (BIS level-I). The usages are limited to security forces as a personal protective gear during various types of threat perceptions envisaged by them during operational commitments.
- 1.2 The scope of these QRs are limited to physical and ballistic requirements of Ballistic Briefcase and its evaluation against in service small arms amn to be used by Central Armed Police Forces (CAPFs) and other Law Enforcement Agencies. These specifications prescribe the minimum performance requirements.
- 1.3 These specifications cover only the basic design of ballistic briefcase and guidelines for its evaluation.

2. Terminology

2.1 All the terminologies and acronyms used herein shall be read in accordance to BIS standards of BR Jackets (BIS-17051:2018) and BR Shield (BIS-17435:2020) and its subsequent amendments issued by BIS.


3. General

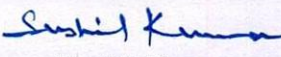
- 3.1 The user by its un-deployed appearance wish to harness the non-threatening appearance to the general public which is ideal for protection of VIPs by the user.
- 3.2 It needs to be disguised, lightweight and compact making it easy to be stowed in vehicles and carried anywhere during escort duties.
- 3.3 The simplistic design of the briefcase shall allow its single handed and rapid deployment in emergent situations to provide a sizeable first line of effective ballistic protection to human being.

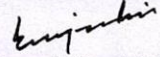
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	 J S Yadav AC/ITBP Member	 Dinesh Kumar DC(TC)/NSG Member	 Satendra Yadav DC/SSB Member	 Vinay Verma DC/CRPF Member


4. Physical Requirements					
S No	Parameters	Requirements	Trial Directives		
4.1	Appearance	The Executive styled Briefcase instantly converts from a lightweight, discreet briefcase to a fold-out ballistic panel for protection against bullets for determined threat level.	To be assessed by BOOs by user through visual testing / inspection.		
4.2	Design	Design and layout of the Ballistic Briefcase shall be such as to resemble a single panel when folded and 03 panels when deployed/opened. All three panels of a single ballistic briefcase should be from same protection level. Overlapping in design is permitted subject to user's requirement.	To be assessed by BOOs by user through visual testing / inspection.		
4.3	Size	The Ballistic Briefcase should be of two sizes:- a) Normal b) Large To be define/ be revealed in TE by the user organizations.	To be assessed by BOOs by user through visual inspection.		
4.4	Dimensions of finished Panels	a) Normal Size:-	To be physically checked by BOOs.		
		Particulars		Folded form	Extended form
		Length		35 Cms (Min)	105 Cms (Min)
		Width		54 Cms (Min)	54 Cms (Min)
		Thickness		05 Cms (Max)	1.6 Cms (Max)
		b) Large Size:-			
		Particulars		Folded form	Extended form
		Length		39 Cms (Min)	117 Cms (Min)
		Width		54 Cms (Min)	54 Cms (Min)
		Thickness		05 Cms (Max)	1.6 Cms (Max)
		i) Customized shape & size- User may opt for their own customized size at the time of tender subject to proportional change in weight.			
4.5	Weight (All 03 folds)	Normal Size = Maximum 3.8 Kgs Large Size = Maximum 4.1 Kgs [Inclusive of all the attachments and outer cover] Note:- User may define their own weight as per their customized size at the time of tender.	To be physically checked by BOOs.		

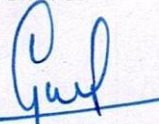

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 2IC/BSF
 Member

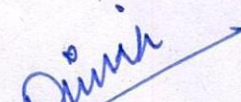

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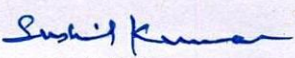

Satendra Yadav
 DC/SSB
 Member

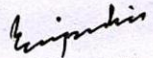

Vinay Verma
 DC/CRPF
 Member


S No	Parameters	Requirements	Trial Directives
4.6	Colour of cover	As defined by the user organizations to be revealed in TE.	To be physically checked by BOOs.
4.7	Outer Finish	Genuine leather or ABS (Acrylonitrile- Butadiene- Styrene) material as per user's choice to be revealed at the stage of TE.	Firm to submit certificate from any NABL accredited lab.
4.8	Pocket for Document	The last, inner fold of the ballistic briefcase shall contain a zip pocket for quick placement of A5 size documents as per user requirements.	To be physically checked by BOOs.
4.9	Labeling on the product	<ul style="list-style-type: none"> - Nomenclature of the product. - Model number & Type - Serial number - Size - Level of protection (Threat) - Date of manufacture (MM/YYYY) - Marking should be at the rear face in indelible ink. 	To be physically checked by BOOs.
4.10	Ergonomics and aesthetics	<ul style="list-style-type: none"> i) Weight distribution of the shield must not negatively impact the user's ability to perform tactical maneuvers. ii) Handle/Grips shall enable the user to comfortably hold and position the unfolded ballistic briefcase. iii) Unfolding mechanism of ballistic briefcase shall allow an ambidextrous design to unfold it within 2 second and refold and lock it within 5 second (Max) by a trained user. iv) Ballistic briefcase finish shall be free from wrinkles, blisters, cracks or fabric tears, crazing, chipping or sharp corners or other evidence of inferior workmanship. 	To be physically checked by BOOs.
5. Material Requirement:- The Ballistic Briefcase shall be made up of high Quality Polyethylene fibers/Aramid Ultra High Strength fibers/High Strength organic Fibers/ Kevlar / Dyneema or any other material with equivalent or better ballistic resistance / proof capabilities or in combination to the above to arrive at the protection level and other defined requirements by the user.			Firm to submit OEM certificate in this regard.
6. Ballistic Requirements:- The major attributes of ballistic components are dimensions, weight/areal density, number of layers, strike/protection area, surface area, labeling, etc. The components may comprise of multiple layers of different materials. However, each layer shall be of same material and of equal shape and size to maintain uniform thickness all over area up to edge of the plates.			Firm to submit OEM certificate in this regard.



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 2IC/BSF
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 PSO, BPR&D
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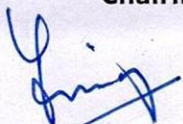

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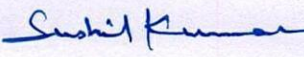

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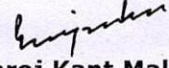

Vinay Verma
 DC/CRPF
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S No	Parameters	Requirements					Trial Directives
		Srl	Ammn.	Bullet	Impact Velo (m/s)	Dist of impact (m)	
6.1	Level of protection	BIS Threat Level-1 (SAP)					Ballistic testing to be done at any Govt. lab preferably at TBRL/NFSU/CFSL. Head stamp and other relevant ammunition details to be mentioned in the ballistic report by the testing agency. Ammunition should be as per BIS 17051:2018.
		01	9 X19 mm	FMJ/Pb	430±15	5±0.5	
6.2	Perforation/ Non perforation test	No perforation is allowed in Ballistic Testing. Perforation testing will be conducted as per BIS 17435:2020.					Ballistic testing to be done at any Govt. lab preferably at TBRL/NFSU/CFSL.
6.3	No of shots and fair hit criteria	13 (Max)	<p>03 shots at each panel and 02 shots at each fold (if applicable as per design).</p> <p>Shot should be taken as per following details:- i) Shot to edge – 51mm (Min) distance ii) Shot to shot – 51mm (Min) distance</p> <p>In case of unfair shot, only one additional shot is allowed in each panel and each fold.</p> <p>Firing at fold (if applicable as per design) will be in the range of ± 5mm from the fold. All shots to be fired at 0° (Zero degree).</p> <p>Fair hit criteria as per clause 7.3 BIS 17435:2020</p> <p>Acceptance criteria as per clause 7.4 BIS 17435:2020</p> <p>No shots at overlapping area.</p>				To be ensured by BOOs at the time of ballistic testing. Any perforation will be considered as critical defect and the sample/ Lot shall be rejected.

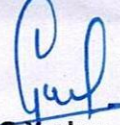

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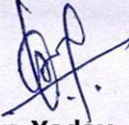

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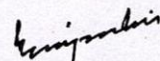

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6.4	Bullet resistant Material	As per para-5 above. The supplier shall declare the type of materials used. Number of layers and their Areal density in technical bid of tender and shall have to maintain the same in bulk supply.	Firm to submit OEM certificate in this regard.
6.5	Wet Test	As per the test protocol of clause 9.1 and 9.2 of BIS 17435:2020 and amendment therein.	To be done at any Govt. approved ballistic testing lab viz- NFSU/TBRL/CFSL etc. BOOs to ensure the testing as per the protocol.
6.6	Extreme temp. test (Optional test)	Low temp. test:- sample to be kept at -20°C ±3°C for two hour ± 5 min Ballistic test to be done, first shot with in 15 min and testing to be completed in one hour High temp. test:- sample to be kept at 55°C ±3°C for two hour ± 5 min Ballistic test to be done, first shot with in 15 min and testing to be completed in one hour	
6.7	Service life assessment	Thermo mechanical conditioning test as per BIS 17051:2018 clause No. 8.4	
6.8	Sealing fabric of panels	Ballistic panels shall be encased in a water proof & heat sealable fabric	Firm to submit OEM certificate in this regard.
6.9	Threads for fabric	Threads used for stitching should have weight per linear meter equivalent to TKT 40. Note- In accordance to ISO-2060.	To be assessed by designated Govt approved NABL accredited lab.

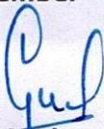

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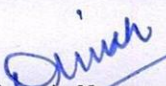

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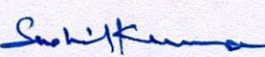

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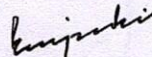

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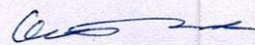
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6.10	Handle/ Grip	The handles are reinforced to comfortably withstand the drop energy caused by the deployment of the additional protective panels to the satisfaction of the user.	To be physically checked by BOOs.
6.11	Outer Casing of Ballistic Briefcase	One hard case and one soft carrying case to be provided by the firm. Hard case along with the sample will be checked by dropping it from 2 meter height and no breakage is allowed after drop test. Soft case should be water resistance features and of good quality.	To be physically checked by BOOs.
7. Samples: - 01 for wet & 01 for thermo mechanical testing and 01 as reserve for each size. (if extreme temp. testing is opted then 02 more samples will be required).			
8. Warranty & Shelf life			
8.1	Warranty	Minimum 2 years warranty to be extended by the vendor/supplier.	
8.2	Shelf life	Minimum 05 years	
9. Packing: - A baggage for storage and transportation of the said Ballistic briefcase to ensure safety from prolonged unnecessary exposure and damage.			

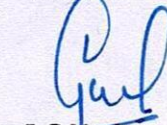

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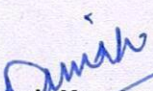

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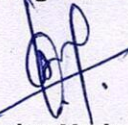

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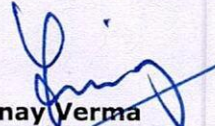

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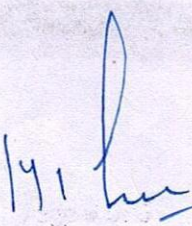

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 DC/CRPF
 Member

APPROVED/NOT APPROVED



(MA Ganapathy, IPS)
 DG, NSG