QUALITATIVE REQUIREMENT AND TRIAL DIRECTIVES BALLISTIC BRIEFCASE

The proposed QR's and TDs of Ballistic briefcase (9 mm/ 7.62 mm) are attached as per Appendix 'A' & 'B' respectively. The OEMs/Vendors are requested to forward information of the product which they can offer and also forward correct specifications of their system against each parameter. Remarks as 'Complied' or 'not complied' remarks will not be accepted.

The required information/details may please be forwarded at the following address:

Directorate General
CISF HQrs, Block No. 13, CGO Complex
New Delhi-03.

An early response is requested.

Appendix- 'A'

QUALITATIVE REQUIREMENT (QRs) FOR BALLISTIC BRIEFCASE

1. General

1.1 The Force ware ballistic briefcase is a discreet rapid deployment close protection device, with a non threatening appearance, which is ideal for use by close protection officers of VIPs. It is low profile, lightweight and compact, making it easy to be stowed in vehicles, and carried anywhere during escort duties. The design of the briefcase allows its single handed and rapid deployment when required to provide a sizeable first line of effective ballistic and fragmentation defence and protection.

1.2 The specifications cover only the basic design of ballistic briefcase and provide guidelines for its evaluation. Specific requirements in terms of design, protection area, additional attachments, storage arrangements etc. are to be defined by the user organizations.

2. General features

S. No.	Parameters	Specifications
2.1	Physical Appearance	With precision, the Executive Ballistic Briefcase instantly converts from a lightweight, discreet briefcase to a fold-out ballistic briefcase with additional "special threats" protection. Within a matter of seconds, this convertible product can provide instant protective coverage against fragmentation and bullets. **The specification of panels is as under :** **i. 03 Panel when deployed.** **ii. 01 Panel protection AK-47 HSC.** **iii. 02 Panel protection AK-47 MSC.**
2.2	Colour	This will be decided by the user organizations.
2.3	Optional use	The ballistic briefcase contains a pocket for the storage of documents or other items so as to function as a normal briefcase.

3. Technical features

3.1 Level of protection

S. No.	Ammunition	Bullet Weight (g)	Bullet Type	Impact Velocity (m/s)	Distance of impact (m)
I) Protection against 9mm					
01	9 x 19 mm	7.4-8.2	FMJ/pb	430±15	5±0.5
II) Protection against 7.62 mm					
01	7.62x39mm	7.45-8.05	HSC	700±15	10±0.5
02	7.62x39mm	7.45-8.05	FMJ/MSC	710±15	10±0.5

User organizations either may procure protection against 9mm or

		7.62 mm. **(Note:- HSC: Hard Steel Core, FMJ: Full Metal Jacket, SI: Steel Insert, PB : Lead Core.)**
3.2	Weight	**I) Protection against 9mm : Upto 03 Kgs** **II) Protection against 7.62 mm : Upto 10 Kgs**
3.3	Dimension	Folded – 40 Cms X 30 Cms **Minimum.** Extended- 40 Cms X 80 Cms **Minimum.** (Specific requirements in connection with dimension of Ballistic Briefcase may be defined by the user organizations.)
3.4	Layout of Panels	A mix of SAP/HAP protective panels encased in a mesh reinforced cover.
3.5	Bullet resistant Material	Ballistic Brief Cases are usually made from aramid, High quality polyethylene fibers ultra high strength fibers/high strength organic fibers/Kevlar/Dyneema/Ceramic/ Steel, Steel alloy or any equivalent fiber to be used for bullet proofing. (At the time of submission of sample the signed declaration (proforma as given below) is to be submitted to the user organization. (Insert Company Name here) hereby declare that all Ballistic Brief Case produced as model number.....as a result of successful **Compliance testing** to (Name of the organization floated the tender) standards will be the same construction, using the same materials (from the same manufacturers/suppliers) and fabricated patterns as the test sample/s listed above is in accordance with qualitative requirements of (Name of the organization floated the tender).
3.6	Outer Cover	The material so used should withstand & be usable in all weather conditions and also protect from Ultra Violet (UV) in temperature -25°C to + 55°C. (The firm should submit the national (NABL) international accredited Lab certificate/ report.)
3.7	Threads	Threads used for stitching should be bonded polyester using a bespoke bonding technology that safeguards against ply untwisting in zigzag sewing and able to sew through multiple layers of heavy duty finished material and the thread strength. (The firm should submit the national (NABL) international accredited Lab certificate/ report.)
3.8	Handle	The handles are reinforced to comfortably withstand the drop energy caused by the deployment of the additional protective panels.
3.9	Radiographic/ Thermographic Test	X Ray images are to be taken to inspect cracks, delamination or any other defects on the surface of HAP by testing. If any crack or defect is found on the surface, Testing Agency will declare the spot as weak point and one shot must be fired on this weak point during ballistic testing. If, Ballistic Brief Case is perforated the sample will be considered as **rejected**. However, this test will also ensure that ceramic layer, if any, is provided evenly up to the edges. (The firm should submit the national (NABL) international accredited Lab certificate/ report.)

3.10	Quick Release Mechanical system	Quick Release Mechanical system should be introduced so that Ballistic Brief Case can be opened within 2 Seconds for operational purpose and to be closed after operation within 5 to 7 seconds. **Shelf life of QRMS is 05 years.**
4. Environmental conditions		
4.1	Operating/Storage temperature	-25°C to + 55°C (The firm should submit the national (NABL) international accredited Lab certificate/ report.)
5. Package		
5.1	Ballistic briefcase.	
5.2	A baggage for storage and transportation of the said Ballistic briefcase.	
5.3	User manual should be provided by a supplier with each ballistic Brief Case containing the following information: ➢ Identification and description of the type of threat protection provide against. ➢ Design and drawing mentioning all the dimensions and weight. ➢ Complete construction details. ➢ Coverage-area of coverage of protection. ➢ Complete details of all accessories and their usability. ➢ Care and maintenance guidelines. ➢ Accessory wise warranty period. ➢ Any other relevant information.	
6. Terms and condition		
6.1	Firm Registration Certificate	The Firm Registration Certificate must be produced duly issued by Ministry of Commerce (MoC). In case of foreign company copy of import/export license should be provided. In addition a full technical file for the ballistic Brief Case must be submitted detailing the carrier (if required), any fixings and any other accessories. The Brief Case must have permanently fix label containing the following information. ➢ Name and legal address of the supplier ➢ Address of manufacturing location (city, state/province, country). ➢ Date of manufacture (i.e., month and year) ➢ Model number/ Nomenclature of the product. ➢ Level of protection ➢ Serial Number ➢ Mark of conformity indications certification by an accredited certification body. ➢ Expiry date. ➢ End user certificate to be issued by the user organization to vendors.
6.2	Warranty	2 years warranty to be extended by the vendor/supplier.
6.3	Serviceability	Replacement of parts to be provided after warranty period is over along with the cost of items.

Appendix- 'B'

TRIAL DIRECTIVES (TDs) FOR THE BALLISTIC BRIEFCASE

1. General features

S. No.	Parameters	Specifications	
1.1	Physical Appearance	With precision, the Executive Ballistic Briefcase instantly converts from a lightweight, discreet briefcase to a fold-out ballistic briefcase with additional "special threats" protection. Within a matter of seconds, this convertible product can provide instant protective coverage against fragmentation and bullets.	To be physically checked by the Board of Officers (BOO).
1.2	Colour	This will be decided by the user organizations.	To be physically checked by the Board of Officers (BOO).
1.3	Optional use	The ballistic briefcase contains a pocket for the storage of documents or other items so as to function as a normal briefcase.	To be physically checked by the Board of Officers (BOO).

2. Technical features

2.1 Level of protection

S. No.	Ammunition	Bullet Weight (g)	Bullet Type	Impact Velocity (m/s)	Distance of impact (m)
I) Protection against 9mm					
01	9 x 19 mm	7.4-8.2	FMJ/pb	430±15	5±0.5
II) Protection against 7.62 mm					
01	7.62x39mm	7.45-8.05	HSC	700±15	10±0.5
02	7.62x39mm	7.45-8.05	FMJ/MSC	710±15	10±0.5

User organizations either may procure protection against 9mm or protection against 7.62mm.

Note:- HSC: Hard Steel Core, FMJ: Full Metal Jacket, SI: Steel Insert, PB : Lead Core.

Protection against 9mm :

BOO will physically check and Live test the SAP/HAP with 9x19 mm ammunition impact velocity (m/s) 430±15, distance impact (m) 5±0.5.

Protection against 7.62 mm :

BOO will physically check and Live test the HAP Option

1- One HAP with 7.62x39 mm HSC.
2- One HAP with 7.62x39 mm MSC.

For 9mm testing/7.62X39mm :

a) Distance to edge shot must 10Cms. and shot to shot distance 15Cms.
b) 3 Shot per panel in triangle form.
c) All shot at 30º towards inside angle.

Ballistic trials as per the QRs will be held either at CFSL, TBRL Chandigarh and GFSU Gandhinagar or any other government

			accredited facility as decided by Technical Evaluation Committee/ User organizations.
2.2	Weight	I) Protection against 9mm : Upto 03 Kgs II) Protection against 7.62 mm: Upto 10 Kgs	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity.
2.3	Dimension	Folded – 40 cm X 30 cm. Extended- 40cm X 80cm. (Specific requirements concerning the dimension of Ballistic Briefcase, if any, may be defined by the user organizations.)	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity.
2.4	Layout of Panels	A mix of SAP/HAP protective panels encased in a mesh reinforced cover.	To be physically checked by the Board of Officers (BOO). The panels should have minimum 4cms overlap to absorb impact. The layout of panels would be as per threat level protection i.e. 2SAP+1HAP, or 1SAP+2HAP as per threat level and within defined weight parameters.
2.5	Bullet resistant Material	Ballistic Brief case are usually made from aramid, High quality polyethylene fibers ultra high strength fibers/high strength organic fibers/Kevlar/Dyneema/Ceramic/ Steel, Steel alloy or any equivalent fiber to be used for bullet proofing. (At the time of submission of sample the signed declaration (sample) as given below to be submitted to the user organization. (Insert Company Name here) hereby declare that all Ballistic Brief Case produced as model numbers.....as a result of successful **Compliance testing** to (Name of the organization floated the tender) standards will be the same construction, using the same materials (from the same manufacturers/suppliers) and fabricated patterns as the test sample/s listed above is in	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity.

		accordance with qualitative requirements of (Name of the organization floated the tender).	
2.6	Outer Cover	The material so used should withstand & be usable in all weather conditions and also protect from Ultra Violet (UV) in temperature -25°C to + 55°C. (The firm should submit the national (NABL) international accredited Lab certificate/ report.)	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity.
2.7	Threads	Threads used for stitching should be bonded polyester using a bespoke bonding technology that safeguards against ply untwisting in zigzag sewing and able to sew through multiple layers of heavy duty finished material and the thread strength. (The firm should submit the national (NABL) international accredited Lab certificate/ report.)	The firm should submit the OEM Certificate. The Board of Officers (BOO) should check the certificate for authenticity.
2.8	Handle	The handles are reinforced to comfortably withstand the drop energy caused by the deployment of the additional protective panels.	To be physically checked by the Board of Officers (BOO).
2.9	Radiographic/ Thermographic Test	X Ray images are to be taken to inspect cracks, delamination or any other defects on the surface of HAP by testing. If any crack or defect is found on the surface, Testing Agency will declare the spot as weak point and one shot must be fired on this weak point during ballistic testing. If, Ballistic Brief Case is perforated the sample will be considered as **rejected**. However, this test will also ensure that ceramic layer, if any, is provided evenly up to the edges. (The firm should submit the national (NABL) international accredited Lab certificate/ report.)	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity.
2.10	Quick Release Mechanical system	Quick Release Mechanical system should be introduced so that Ballistic Brief Case can be opened within 2 Seconds for operational purpose and to be closed after operation within 5 to 7 seconds. **Shelf life of QRMS is 05 years.**	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity. **Further, Board of Officers (BOO) will physically test the QRMS atleast ten times during trials.**

3.Environmental conditions			
3.1	Operating/Storage temperature	-25°C to + 55°C (The firm should submit the national (NABL) international accredited Lab certificate/ report.)	The firm should submit the national (NABL) international accredited Lab certificate/ report. The Board of Officers (BOO) should check the certificate for authenticity.
4.Package			
4.1	Ballistic briefcase.		To be physically checked by the Board of Officers (BOO).
4.2	A baggage for storage and transportation of the said Ballistic briefcase.		
4.3	User manual should be provided by a supplier with each ballistic Brief Case containing the following information: ➢ Identification and description of the type of threat protection provide. ➢ Design and drawing mentioning all the dimensions and weight ➢ Complete construction details. ➢ Coverage-area of protection. ➢ Complete details of all accessories and their usability ➢ Care and maintenance guidelines ➢ Accessory wise warranty period ➢ Any other relevant information		
5.Terms and condition			
5.1	Firm Registration Certificate	The Firm Registration Certificate must be produced duly issued by Ministry of Commerce (MoC). In case of foreign company copy of import/export license should be provided. In addition a full technical file for the ballistic Brief Case must be submitted detailing the carrier (if required), any fixings and any other accessories. The Brief Case must have permanently fix label containing the following information. ➢ Name and legal address of the supplier ➢ Address of manufacturing location (city, state/province, country). ➢ Date of manufacture (i.e., month and year) ➢ Model number/ Nomenclature of the product. ➢ Level of protection ➢ Serial Number ➢ Mark of conformity indications certification by an accredited	To be checked by the Board of Officers (BOO).

		certification body. ➢ Expiry date. ➢ End user certificate to be issued by the user organization to vendors.	
5.2	Warranty	2 years warranty to be extended by the vendor/supplier.	The firm should submit the OEM Certificate. The Board of Officers (BOO) should check the certificate for authenticity
5.3	Serviceability	Replacement of parts to be provided after warranty period is over along with the cost of items.	The firm should submit the certificate along with the cost of items. The Board of Officers (BOO) should check the certificate for authenticity