

**SPECIFICATION OF FUZE, PRIMARY CARTRIDGE & CARTRIDGE AUGMENTING**  
**FOR BOMB ML 60 MM MORTAR HE BD-20**

Ser	Nomenclature & Specification	A/U	Qty
1.	<p><b>Fuze for Bomb ML 60 mm Mortar HE BD-20</b></p> <p>a. Name of Fuze : Fuze MP-5F  b. Type of Fuze : Point Detonating (PD)  c. Weight of Fuze : 120 gm ± 05 gm  d. Overall Length of Fuze : 79.5 + 0.7/ -0.75 mm  e. Compatibility with Ammo : Bomb ML 60 mm Mortar HE Type-63  f. Operating Temperature : -40° C ~ + 50° C  g. Suitable for : Bomb ML 60 mm Mortar HE Type-63  h. Thread size : M36.18 x 2.54 mm  j. Thread length : 11.3 mm (Approx.)  k. Safety mechanism : 2-Way mechanical safety or above  l. Storage temperature range : 0°C to 50°C  m. Storage humidity minimum : 95%</p>	No	50,000
2.	<p><b>Primary Cartridge for Bomb ML 60 mm Mortar HE BD-20</b></p> <p>a. Length of complete primary cartridge : 48.5 mm ~ 51.0 mm  b. Diameter of the primary cartridge : 16.00 mm ~ 17.05 mm  c. Diameter of complete primary cartridge over rim : 18.9 mm ~ 20.4 mm  d. Diameter on the protruding area (area with bigger diameter) :  17.05 mm ~ 17.25 mm  e. Weight of the complete primary cartridge : 18.00 gm (Approx)  f. Weight of filling of the primary cartridge : 3.2 gm (Approx)  g. Type of filling of the primary cartridge : Double base flake propellant  h. Material used in the body of the primary cartridge : DT-14 paper or standard  j. Material used in the base of the primary cartridge : Brass  k. Filling of cap composition : Non- rust percussion powder  l. Storage temperature range : 0°C to 50°C  m. Storage humidity minimum : 95%  n. Suitable for : Bomb ML 60 mm Mortar HE Type-63</p>	No	50,000
3.	<p><b>Cartridge Augmenting for Bomb ML 60 mm Mortar HE BD-20</b></p> <p>a. Shape and dimension of Augmenting Cartridge :  i. Horse shoe ring shape.  ii. Outer diameter : Approx 52.5 mm  iii. Inner diameter : Approx 22 mm  iv. Thickness : Approx 5 mm  b. Outer materials/cover used with Augmenting Cartridge : Cotton/Silk  c. Maximum Muzzle Velocity : Approx 137 meter/sec  d. Maximum Range : 1440 meter  e. Weight of Augmenting Cartridge : Approx 3.8 gm  f. Storage temperature range : 0°C to 50°C  g. Storage humidity minimum : 95%  h. Suitable for : Bomb ML 60 mm Mortar HE Type-63</p>	No	1,50,000

**Condition:**

- a. **Country of Origin** : **Group B.**
- b. Country of Manufacturer : Group B.
- c. Name of Manufacturer : To be mentioned.
- d. Port of Shipment : Country of Manufacturer.
- e. **All Items are treated as a package and offer to be submitted as package.**
- f. **Pre-Shipment Inspection:**
  - i. 3 (Three) members {2 (Two) members from BOF & 1 (One) member from IA&E} for a period of 2 (Two) workings days (Excluding journey period).
  - ii. Supplier must submit detail plan of PSI (Modus Operandi).
  - iii. Supplier must also mention PSI cost to be borne by them at their end.
  - iv. If PSI is not carried out by the buyer due to any pandemic situation, then the Quality Assurance Certificate (QAC) original hard copy signed by the appropriate authority of the Quality Control Department of the manufacturer as per Annex K will have to be submitted at BOF end for obtaining Shipment Clearance.

**Terms & Conditions**

Supplier must mention their compliance on the following mentioned points :

1. A principal/manufacture can submit **only one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacture will be **treated as rejected**.
2. To ensure unhindered LC handling the principal must provide a certificate to confirm that their LC operating bank has RMA (Relationship Management Agreement) with the local scheduled Banks of Bangladesh
3. Supplier must **clearly mention** (in the technical offer) that as principal/manufacture they poses necessary **export permit** from the concern ministry or **chamber of commerce** of their country. They must also submit a certificate in this regards as per the attached specimen format at Annex J.
4. Before signing the contract, foreign currency Performance Guarantee @ 10% of total LC value is to be submitted by the Principal in favour of Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur through any scheduled Bank located in Bangladesh (As per the format at Annex G).
5. A separate **certificate should be provided** by the principal **originally signed** (Computerized or digitally edited signature will not be accepted) stating that they are aware of the requirement of the PG and if the contract is awarded they will be bound to provide the PG as per the format at Annex H, **otherwise administrative action will be taken against the principal and local agent**.
6. The stores should be supplied to BOF at **supplier's cost**.
7. If the supplier fails to deliver the stores within the stipulated period, the followings will be applicable:
  - a. Cancel the contract and/or,
  - b. Decision at the discretion of BOF.
8. Inspectorate is the authority in all matters pertaining to Inspection. Any verdict by the inspectors regarding rejection, acceptance, and /or deviation of machine involving price reduction will be treated as final and will not be subject to arbitration.
9. The Supplier must submit the following **attested documents** with the schedule :
  - a. **Trade License**
  - b. **Tin Certificate**
  - c. **Up to date VAT Registration certificate.**

**GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS OF FUZE FOR BOMB ML 60  
MM MORTAR HE BD-20****1. General Requirements.**

- a. The store must be brand new, free from all kind of defects/damages and suitable for assembling with BOF products Bomb ML 60 mm Mortar HE BD-20. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store and its all components should not be before the year of signing contract. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- d. The store should be safe in storage, transportation etc and should not cause any health hazard. Certificate should be provided by manufacturer along with the offer and store.
- e. The store should preferably be of 1(One) lot but not more than two lots. Maximum quantity in each lot to be mentioned.
- f. All marking and other details should be distinct in English language.
- g. Quality control and inspection certificate must be provided by the manufacturer along with the stores.
- h. Guarantee certificate for supply of store as per offer to be submitted by the manufacturer along with the offer.
- j. All certificates and letter of authorization should be original.
- k. Warranty and shelf life certificate by the manufacturer as mentioned below should be furnished along with the offer and stores:

(1) **Warranty Certificate.** The store are brand new as per the contract clause, complete, of good material and workmanship throughout and that in the event of any shortage, defects/damages being found during inspection the store should be replaced by the supplier at their own cost within 6(Six) months as the case arises. The warranty period of the stores will be 12(Twelve) months from the date of issue of "Inspection Note" by inspectorate of Armament and Explosives.

(2) **Shelf life Certificate.** The shelf life of the store will be 10 (Ten) years from the date of manufacture. If the stores are found defective within the shelf life the store must be replaced by the supplier at their own cost (CFR basis) within 6(Six) months as the case arises.

2. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer (Laminated/computer printed catalogue/ brochure is not acceptable). Brochure should contain the following information. If the brochure does not contain all the information, then those should be submitted in a separate paper in addition to the original brochure as following:

<b>Fuze for Bomb ML 60 mm Mortar HE BD-20</b>	
a.	Name of Fuze : Fuze MP-5F
b.	Type of Fuze : Point Detonating (PD)
c.	Weight of Fuze : 120 gm $\pm$ 05 gm
d.	Overall Length of Fuze : 79.5+0.7/-0.75 mm
e.	Compatibility with Ammo : Bomb ML 60 mm Mortar HE Type-63
f.	Operating Temperature : -40° C ~ + 50° C
g.	Suitable for : Bomb ML 60 mm Mortar HE Type-63
h.	Thread size : M36.18 x 2.54 mm
j.	Thread length : 11.3 mm (Approx)
k.	Safety mechanism : 2-Way mechanical safety or above
l.	Storage Temperature Range : 0° C to 50° C
m.	Storage Humidity Minimum : 95%

### 3. **Packing.**

- a. 3xFuze are to be packed in a separate air tight plastic container. Packing material should be international standard.
- b. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage upto the shelf life of the store {i.e. 10 (Ten) years shelf life}. The manufacturer should give a certificate to this effect while submitting offer and stores.
- c. Colour of boxes should be olive green.
- d. Boxes for books and publication and sectionized model should be painted white.
- e. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- f. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Road/Rail. The packing and marking will be done by the supplier in such a manner that the stores will not be affected by sea water, rain water, damp weather during transportation.
- g. The box/package should have suitable means for holding by hand and should be easy to handle for storage and transportation.

### 4. **Marking on the Packing Box.**

- a. Following marking to be stenciled on the top of the boxes:
  - (1) Consignee - Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur, Bangladesh.
  - (2) Contract number and date .....
- b. Following marking to be stenciled on the front side of the boxes:
  - (1) Number of fuze packed.
  - (2) Full nomenclature of the stores.
  - (3) Lot number, year of manufacture and factory code of the store.
  - (4) Safety distance category.
  - (5) Government Explosive Group (To be shown within a red circle).
  - (6) IMDG code with explosion symbol.
  - (7) Net and gross weight of the box.
  - (8) Dimension of the box.
- c. Following marking to be stenciled on the left or right side of the boxes:
  - (1) Package number - e.g 01/1000, 02/1000 and so on.
  - (2) UN number.
- d. Following marking to be stenciled on the top of the boxes:
  - (1) Name of Fuze.
  - (2) Lot number.
  - (3) Year of manufacture.
  - (4) Factory code.

RESTRICTED

5. 5 sets of fuze opening key should be provided with the store.
6. **Pre-Shipment Inspection (PSI)**. PSI will be carried out as package that is Fuze, Primary Cartridge and Augmenting Cartridge will be carried in a one.
  - a. **PSI will be carried out at manufacturer's factory at the discretion of Purchaser. Air ticket, food, accommodation, medical and pocket money of PSI Team members will be borne by Supplier.**
  - b. PSI will be carried out jointly by BOF and Inspectorate of Armaments & Explosive (IA&E) at the discretion of BOF authority. The team may be comprised of 3 (Three) members 2(Two) members from BOF & 1(One) member from IA&E) for a period of 4(Four) working days excluding journey period. **Air ticket, food, accommodation, medical, pocket money of PSI team members, all internal movement arrangement and cost related to the inspection will be borne by the Supplier.** The supplier should inform about the date of PSI at least 8 (Eight) weeks to 15 (Fifteen) weeks (in respect of time required for obtaining visa of respective country) prior to the exact date of carrying out of PSI.
  - c. The PSI will be carried out at manufacturer's factory premises/plant. PSI should include visual inspection/checking of laboratory/chemical/ functional test of the stores, inspection of production line of same type of stores. PSI team will check all the parameters of the item as per technical requirements of the contract. All necessary equipment should be provided by the supplier. Obtained result should be attached with PSI report.
  - d. PSI team will accept the stores provisionally, if the stores are found as per contractual requirement. PSI report will be vetted by both the vetting committee of BOF and IA&E.
  - e. If any deficiency/discrepancy found during vetting of PSI report, then deficiency/discrepancy items will be filled up or rectified by the supplier and will forward completion certificate to BOF. Then shipment clearance will be given by BOF.
  - f. If any deficiency/discrepancy is not found in the PSI report and the stores are satisfactory then after shipment 80% payment will be paid and remaining 20% payment will be paid after satisfactory post shipment inspection.
  - g. **If the PSI is not carried out due to any reason of purchaser side then the Quality Assurance Certificate of "Quality Assurance Department" of the manufacturer will be considered as PSI report. In this case 60% payment will be made after shipment. Rest 40% payment will be made after satisfactory post shipment inspection report at BOF site. If the PSI can not be carried out due to any reason of seller/supplier side then the QAC may be accepted but 100% payment will be made after final acceptance of the stores by purchaser's inspecting authority.** If the stores are rejected during Post-shipment inspection, the stores will be replaced by the supplier at their own cost.
7. **Pre-Shipment Inspection (PSI) Test Firing**. Function of Fuze will be checked by test firing during PSI. In this regard 05x Fuze from each lot along with other components to be provided by the supplier at free of cost. No blind/partial detonation will be accepted.
8. **Post-Shipment Inspection**. Visual inspection and test firing will be carried out as per contractual requirement jointly by the representative of inspectorate of armaments and explosive and representative of supplier. The inspectorate will issue final inspection report within one month after receipt of stores at consignee's end provided the visual inspection is satisfactory and the case of clarification/replacement of store if any is settled as per visual inspection report and post-shipment test firing formalities are completed within the time (one month). Part inspection Note will not be issued.
9. **Post-Shipment Inspection Test Firing**. Function of Fuze will be checked by test firing during post shipment inspection. In this regard 05x Fuze from each lot along with other components to be provided by the supplier at free of cost. No blind/partial detonation will be accepted.
10. **Authority Holding Sealed Particulars**. Chief Inspector, Inspectorate of Armament and Explosive, Gazipur Cantonment.
11. **Inspecting Authority**. Chief Inspector, Inspectorate of Armament and Explosive, Gazipur Cantonment.
12. **Part-shipment**. Not allowed.
13. **Tran-shipment**. Not allowed.
14. **Inspection Certificate**. Final inspection certificate from the manufacturer should be provided along with the stores by the supplier.

**GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS OF PRIMARY CARTRIDGE  
FOR BOMB ML 60 MM MORTAR HE BD-20****1. General Requirements.**

- a. The store must be brand new, free from all kind of defects/damages and suitable for assembling with BOF products Bomb ML 60 mm Mortar HE BD-20. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store and its all components should not be before the year of signing contract. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- d. The store should be safe in storage, transportation etc and should not cause any health hazard. Certificate should be provided by manufacturer along with the offer and store.
- e. The store should preferably be of 1(One) lot but not more than two lots. Maximum quantity in each lot to be mentioned.
- f. All marking and other details should be distinct in English language.
- g. Quality control and inspection certificate must be provided by the manufacturer along with the stores.
- h. Guarantee certificate for supply of store as per offer to be submitted by the manufacturer along with the offer.
- j. All certificates and letter of authorization should be original.
- k. Warranty and shelf life certificate by the manufacturer as mentioned below should be furnished along with the offer and stores:

(1) **Warranty Certificate.** The store are brand new as per the contract clause, complete, of good material and workmanship throughout and that in the event of any shortage, defects/damages being found during inspection the store should be replaced by the supplier at their own cost within 6(Six) months as the case arises. The warranty period of the stores will be 12 (twelve) months from the date of issue of "Inspection Note" by inspectorate of Armament and Explosives.

(2) **Shelf life Certificate.** The shelf life of the store will be 10 (Ten) years from the date of manufacture. If the stores are found defective within the shelf life the store must be replaced by the supplier at their own cost (CFR basis) within 06 (six) months as the case arises.

2. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer (Laminated/computer printed catalogue/ brochure is not acceptable). Brochure should contain the following information. If the brochure does not contain all the information, then those should be submitted in a separate paper in addition to the original brochure as following:

<b>Primary Cartridge for Bomb ML 60 mm Mortar HE BD-20</b>	
a.	Length of complete primary cartridge : 48.5 mm ~ 51.0 mm
b.	Diameter of the primary cartridge : 16.00 mm ~ 17.05 mm
c.	Diameter of complete primary cartridge over rim : 18.9 mm ~ 20.4 mm
d.	Diameter on the protruding area (area with bigger diameter) : 17.05 mm ~ 17.25 mm
e.	Weight of the complete primary cartridge : 18.00 gm (Approx)
f.	Weight of filling of the primary cartridge : 3.2 gm (Approx)
g.	Type of filling of the primary cartridge : Double base Flake propellant
h.	Material used in the body of the primary cartridge : DT-14 paper or standard
j.	Material used in the base of the primary cartridge : Brass
k.	Filling of cap composition : Non- rust percussion powder
l.	Storage Temperature Range : 0° C to 50° C
m.	Storage Humidity Minimum : 95%
n.	Suitable for : Bomb ML 60 mm Mortar HE Type-63

### 3. **Packing.**

- a. 3xPrimary Cartridge are to be packed in a separate air tight plastic container. Packing material should be international standard.
- b. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage upto the shelf life of the store {i.e. 10 (Ten) years shelf life}. The manufacturer should give a certificate to this effect while submitting offer and stores.
- c. Colour of boxes should be olive green.
- d. Boxes for books and publication and sectionized model should be painted white.
- e. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- f. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Road/Rail. The packing and marking will be done by the supplier in such a manner that the stores will not be affected by sea water, rain water, damp weather during transportation.
- g. The box/package should have suitable means for holding by hand and should be easy to handle for storage and transportation.

### 4. **Marking on the Packing Box.**

- a. Following marking to be stenciled on the top of the boxes:
  - (1) Consignee - Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur, Bangladesh.
  - (2) Contract number and date .....
- b. Following marking to be stenciled on the front side of the boxes:
  - (1) Number of Primary Cartridge packed.
  - (2) Full nomenclature of the stores.
  - (3) Lot number, year of manufacture and factory code of the store.
  - (4) Safety distance category.
  - (5) Governmentt Explosive Group (To be shown within a red circle).
  - (6) IMDG code with explosion symbol.
  - (7) Net and gross weight of the box.
  - (8) Dimension of the box.
- c. Following marking to be stenciled on the left or right side of the boxes:
  - (1) Package number - e.g 01/1000, 02/1000 and so on.
  - (2) UN number.
- d. Following marking to be stenciled on the top of the boxes:
  - (1) Name of Primary Cartridge.
  - (2) Lot number.
  - (3) Year of manufacture.
  - (4) Factory code.

5. **Pre-Shipment Inspection (PSI).** PSI will be carried out as package that is Fuze, Primary Cartridge and Augmenting Cartridge will be carried in a one.
- a. **PSI will be carried out at manufacturer's factory at the discretion of Purchaser. Air ticket, food, accommodation, medical and pocket money of PSI Team members will be borne by Supplier.**
  - b. PSI will be carried out jointly by BOF and Inspectorate of Armaments & Explosive (IA&E) at the discretion of BOF authority. The team may be comprised of 3(three) members 2(Two) members from BOF & 1(One) member from IA&E) for a period of 4(Four) working days excluding journey period. **Air ticket, food, accommodation, medical, pocket money of PSI team members, all internal movement arrangement and cost related to the inspection will be borne by the Supplier.** The supplier should inform about the date of PSI at least 8 (Eight) weeks to 15 (Fifteen) weeks (in respect of time required for obtaining visa of respective country) prior to the exact date of carrying out of PSI.
  - c. The PSI will be carried out at manufacturer's factory premises/plant. PSI should include visual inspection/checking of laboratory/chemical/ functional test of the stores, inspection of production line of same type of stores. PSI team will check all the parameters of the items as per technical requirements of the contract. All necessary equipment should be provided by the supplier. Obtained result should be attached with PSI report.
  - d. PSI team will accept the stores provisionally, if the stores are found as per contractual requirement. PSI report will be vetted by both the vetting committee of BOF and IA&E.
  - e. If any deficiency/discrepancy found during vetting of PSI report, then deficiency/discrepancy items will be filled up or rectified by the supplier and will forward completion certificate to BOF. Then shipment clearance will be given by BOF.
  - f. If any deficiency/discrepancy is not found in the PSI report and the stores are satisfactory then after shipment 80% payment will be paid and remaining 20% payment will be paid after satisfactory post shipment inspection.
  - g. **If the PSI is not carried out due to any reason of purchaser side then the Quality Assurance Certificate of "Quality Assurance Department" of the manufacturer will be considered as PSI report. In this case 60% payment will be made after shipment. Rest 40% payment will be made after satisfactory post shipment inspection report at BOF site. If the PSI can not be carried out due to any reason of seller/supplier side then the QAC may be accepted but 100% payment will be made after final acceptance of the stores by purchaser's inspecting authority.** If the stores are rejected during Post-shipment inspection, the stores will be replaced by the supplier at their own cost.
6. **Pre-Shipment Inspection (PSI) Test Firing.** Function of Primary Cartridge will be checked by test firing during PSI. In this regard 05x Primary Cartridge from each lot to be provided by the supplier at free of cost. No misfire will be accepted.
7. **Post-Shipment Inspection.** Visual inspection and test firing will be carried out as per contractual requirement jointly by the representative of inspectorate of armaments and explosive and representative of supplier. The inspectorate will issue final inspection report within one month after receipt of stores at consignee's end provided the visual inspection is satisfactory and the case of clarification/replacement of store if any is settled as per visual inspection report and post-shipment test firing formalities are completed within the time (one month). Part inspection Note will not be issued.
8. **Post-Shipment Inspection Test Firing.** Function of Primary Cartridge will be checked by test firing during post shipment inspection. In this regard 05x Primary Cartridge from each lot to be provided by the supplier at free of cost. No misfire will be accepted.
9. **Authority Holding Sealed Particulars.** Chief Inspector, Inspectorate of Armament and Explosive, Gazipur Cantonment.
10. **Inspecting Authority.** Chief Inspector, Inspectorate of Armament and Explosive, Gazipur Cantonment.
11. **Part-shipment.** Not allowed.
12. **Tran-shipment.** Not allowed.
13. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with the stores by the supplier.



**GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS OF CARTRIDGE  
AUGMENTING FOR BOMB ML 60 MM MORTAR HE BD-20**1. **General Requirements.**

- a. The store must be brand new, free from all kind of defects/damages and suitable for assembling with BOF products Bomb ML 60 mm Mortar HE BD-20. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store and its all components should not be before the year of signing contract. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- d. The store should be safe in storage, transportation etc and should not cause any health hazard. Certificate should be provided by manufacturer along with the offer and store.
- e. The store should preferably be of 1(One) lot but not more than two lots. Maximum quantity in each lot to be mentioned.
- f. All marking and other details should be distinct in English language.
- g. Quality control and inspection certificate must be provided by the manufacturer along with the stores.
- h. Guarantee certificate for supply of store as per offer to be submitted by the manufacturer along with the offer.
- j. All certificates and letter of authorization should be original.
- k. Warranty and shelf life certificate by the manufacturer as mentioned below should be furnished along with the offer and stores:

(1) **Warranty Certificate.** The store are brand new as per the contract clause, complete, of good material and workmanship throughout and that in the event of any shortage, defects/damages being found during inspection the store should be replaced by the supplier at their own cost within 6(Six) months as the case arises. The warranty period of the stores will be 12 (Twelve) months from the date of issue of "Inspection Note" by inspectorate of Armament and Explosives.

(2) **Shelf life Certificate.** The shelf life of the store will be 10 (Ten) years from the date of manufacture. If the stores are found defective within the shelf life the store must be replaced by the supplier at their own cost (CFR basis) within 6 (Six) months as the case arises.

2. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer (Laminated/computer printed catalogue/ brochure is not acceptable). Brochure should contain the following information. If the brochure does not contain all the information, then those should be submitted in a separate paper in addition to the original brochure as following:

<b>Cartridge Augmenting for Bomb ML 60 mm Mortar HE BD-20</b>	
a.	Shape and dimension of Augmenting Cartridge:
	i. Horse shoe ring shape.
	ii. Outer diameter : Approx 52.5 mm
	iii. Inner diameter : Approx 22 mm
	iv. Thickness : Approx 5 mm
b.	Outer materials/cover used with Cartridge Augmenting : Cotton/Silk
c.	Maximum Muzzle Velocity : Approx 137 meter/sec
d.	Maximum Range : 1440 meter
e.	Weight of Augmenting Cartridge : Approx 3.8 gm
f.	Storage Temperature Range : 0° C to 50° C
g.	Storage Humidity Minimum : 95%
h.	Suitable for : Bobm ML 60 mm Mortar HE Type-63

3.

**Packing.**

- a. 9x Augmenting Cartridge are to be packed in a separate air tight plastic container. Packing material should be international standard.
- b. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage upto the shelf life of the store {i.e. 10 (Ten) years shelf life}. The manufacturer should give a certificate to this effect while submitting offer and stores.
- c. Colour of boxes should be olive green.
- d. Boxes for books and publication and sectionized model should be painted white.
- e. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- f. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Road/Rail. The packing and marking will be done by the supplier in such a manner that the stores will not be affected by sea water, rain water, damp weather during transportation.
- g. The box/package should have suitable means for holding by hand and should be easy to handle for storage and transportation.

4.

**Marking on the Packing Box.**

- a. Following marking to be stenciled on the top of the boxes:
  - (1) Consignee - Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur, Bangladesh.
  - (2) Contract number and date .....
- b. Following marking to be stenciled on the front side of the boxes:
  - (1) Number of fuze packed.
  - (2) Full nomenclature of the stores.
  - (3) Lot number, year of manufacture and factory code of the store.
  - (4) Safety distance category.
  - (5) Government Explosive Group (To be shown within a red circle).
  - (6) IMDG code with explosion symbol.
  - (7) Net and gross weight of the box.
  - (8) Dimension of the box.
- c. Following marking to be stenciled on the left or right side of the boxes:
  - (1) Package number - e.g 01/1000, 02/1000 and so on.
  - (2) UN number.
- d. Following marking to be stenciled on the top of the boxes:
  - (1) Name of Cartridge Augmenting.
  - (2) Lot number.
  - (3) Year of manufacture.
  - (4) Factory code.

5. **Pre-Shipment Inspection (PSI).** PSI will be carried out as package that is Fuze, Primary Cartridge and Augmenting Cartridge will be carried in a one.
- a. **PSI will be carried out at manufacturer's factory at the discretion of Purchaser. Air ticket, food, accommodation, medical and pocket money of PSI Team members will be borne by Supplier.**
  - b. PSI will be carried out jointly by BOF and Inspectorate of Armaments & Explosive (IA&E) at the discretion of BOF authority. The team may be comprised of 3(Three) members 2(Two) members from BOF & 1(One) member from IA&E) for a period of 4(Four) working days excluding journey period. **Air ticket, food, accommodation, medical, pocket money of PSI team members, all internal movement arrangement and cost related to the inspection will be borne by the Supplier.** The supplier should inform about the date of PSI at least 8 (Eight) weeks to 15 (Fifteen) weeks (in respect of time required for obtaining visa of respective country) prior to the exact date of carrying out of PSI.
  - c. The PSI will be carried out at manufacturer's factory premises/plant. PSI should include visual inspection/checking of laboratory/chemical/ functional test of the stores, inspection of production line of same type of stores. PSI team will check all the parameters of the items as per technical requirements of the contract. All necessary equipment should be provided by the supplier. Obtained result should be attached with PSI report.
  - d. PSI team will accept the stores provisionally, if the stores are found as per contractual requirement. PSI report will be vetted by both the vetting committee of BOF and IA&E.
  - e. If any deficiency/discrepancy found during vetting of PSI report, then deficiency/discrepancy items will be filled up or rectified by the supplier and will forward completion certificate to BOF. Then shipment clearance will be given by BOF.
  - f. If any deficiency/discrepancy is not found in the PSI report and the stores are satisfactory then after shipment 80% payment will be paid and remaining 20% payment will be paid after satisfactory post shipment inspection.
  - g. **If the PSI is not carried out due to any reason of purchaser side then the Quality Assurance Certificate of "Quality Assurance Department" of the manufacturer will be considered as PSI report. In this case 60% payment will be made after shipment. Rest 40% payment will be made after satisfactory post shipment inspection report at BOF site. If the PSI can not be carried out due to any reason of seller/supplier side then the QAC may be accepted but 100% payment will be made after final acceptance of the stores by purchaser's inspecting authority.** If the stores are rejected during Post-shipment inspection, the stores will be replaced by the supplier at their own cost.
6. **Pre-Shipment Inspection (PSI) Test Firing.** Function of Augmenting Cartridge will be checked by test firing during PSI. In this regard 9x Augmenting Cartridge from each lot to be provided by the supplier at free of cost. Augmenting Cartridge will be fixed with existing Bomb ML 60 mm Mortar HE Type-63 to check maximum range and other range against relevant Firing Table.
7. **Post-Shipment Inspection.** Visual inspection and test firing will be carried out as per contractual requirement jointly by the representative of inspectorate of armaments and explosive and representative of supplier. The inspectorate will issue final inspection report within one month after receipt of stores at consignee's end provided the visual inspection is satisfactory and the case of clarification/replacement of store if any is settled as per visual inspection report and post-shipment test firing formalities are completed within the time (one month). Part inspection Note will not be issued.
8. **Post-Shipment Inspection Test Firing.** Function of Augmenting Cartridge will be checked by test firing during post shipment inspection. In this regard 9x Augmenting Cartridge from each lot to be provided by the supplier at free of cost. Augmenting Cartridge will be fixed with existing Bomb ML 60 mm Mortar HE Type-63 to check maximum range and other range against relevant Firing Table.
9. **Authority Holding Sealed Particulars.** Chief Inspector, Inspectorate of Armament and Explosive, Gazipur Cantonment.
10. **Inspecting Authority.** Chief Inspector, Inspectorate of Armament and Explosive, Gazipur Cantonment.
11. **Part-shipment.** Not allowed.
12. **Tran-shipment.** Not allowed.
13. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with the stores by the supplier.