

ANNEX A TO
BOF TENDER NO 23.27.0000.167.283(III).3256105.21.22
DATED 29 DECEMBER 2022

**SPECIFICATION OF FUZE, PRIMER PERCUSSION & PROPELLANT (MULTI PERFORATED),
PROPELLANT (SINGLE PERFORATED) AND PROPELLANT WM-017**

Ser	Nomenclature & Specification	A/U	Qty																						
a.	<p>Fuze PD M557 For Carts QF105mm HOW HE BD-20 or any other Fuze compatible and technically supported with Carts QF105mm HOW HE BD-20</p> <p><u>Specification</u> Length = 152.1 mm (Approx), Diameter = 61.3 mm (Approx), Weight = 961.6 gms (Approx), Threads = 2"-12 UNS-1A, USE = Carts QF 105 mm HOW HE BD-20 & Smoke, Type = Mechanical (SQ or delay) (As per attached drawing)</p>	No	3,000																						
b.	<p>Primer Percussion Primer Percussion P1, MK3 (Screwed) or any other Primer compatible and technically supported with Carts QF 105 mm HOW HE BD-20</p> <p><u>Specification</u> Length = 24.86 cm (Approx), Filled Weight = 146 gms (Approx), Parts = Plug, Magazine, Liner, Disc Paper, Cap, Body & Cup Battery. (As per attached drawing)</p>	No	4,000																						
c.	<p>Propellant (Multi Perforated) Single base flashless and smokeless M1 type (Multi Perforated) or any other Propellant compatible and technically supported with Carts QF 105 mm HOW HE BD-20</p>	Kg	3,000																						
d.	<p>Propellant (Single Perforated) Single base flashless and smokeless M1 type (Single Perforated) or any other propellant compatible and technically supported with carts QF 105 mm How HE BD-20.</p>	Kg	1,000																						
e.	<p>Propellant WM-017 for Carts QF 105 mm How Blank BD-20 Ammunition Double Base Propellant WM-017 for Carts QF 105 mm How Blank BD-20 Ammunition Containing Nitrocellulose, Nitroglycerine and other additives as under:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><u>1. Chemical Composition</u></td> <td style="text-align: center;"><u>Limits</u></td> </tr> <tr> <td>Carbamite</td> <td style="text-align: center;">2.0 ± 0.20%</td> </tr> <tr> <td>Nitrocellulose</td> <td style="text-align: center;">65.0 ± 0.60%</td> </tr> <tr> <td>Mineral Jelly</td> <td style="text-align: center;">3.50 ± 0.20%</td> </tr> <tr> <td>Nitroglycerine (by diff)</td> <td style="text-align: center;">29.50 ± 0.60%</td> </tr> <tr> <td>Volatile Matter</td> <td style="text-align: center;">0.50 Max</td> </tr> <tr> <td>Chalk (additional)</td> <td style="text-align: center;">0.4 ± 0.1%</td> </tr> <tr> <td><u>2. Physical Properties</u></td> <td style="text-align: center;"><u>Limits</u></td> </tr> <tr> <td>Mean External Dia</td> <td style="text-align: center;">0.016" - 0.018" (Inches)</td> </tr> <tr> <td><u>3. Ballistic Parameters</u></td> <td style="text-align: center;"><u>Limits</u></td> </tr> <tr> <td>Sound Level Test at the distance of 05 meters parallel to weapon (Ballistic Test after conditioning the ammunition at 21^oC for 12 Hours)</td> <td style="text-align: center;">122 ± 7db</td> </tr> </table>	<u>1. Chemical Composition</u>	<u>Limits</u>	Carbamite	2.0 ± 0.20%	Nitrocellulose	65.0 ± 0.60%	Mineral Jelly	3.50 ± 0.20%	Nitroglycerine (by diff)	29.50 ± 0.60%	Volatile Matter	0.50 Max	Chalk (additional)	0.4 ± 0.1%	<u>2. Physical Properties</u>	<u>Limits</u>	Mean External Dia	0.016" - 0.018" (Inches)	<u>3. Ballistic Parameters</u>	<u>Limits</u>	Sound Level Test at the distance of 05 meters parallel to weapon (Ballistic Test after conditioning the ammunition at 21 ^o C for 12 Hours)	122 ± 7db	Kg	1,000
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Sound Level Test at the distance of 05 meters parallel to weapon (Ballistic Test after conditioning the ammunition at 21 ^o C for 12 Hours)	122 ± 7db																								
<u>Condition:</u>																									
a.	Country of Origin : Any Country.																								
b.	Country of Manufacturer : To be mentioned.																								
c.	Name of Principal : To be mentioned.																								
d.	Name of Manufacturer : To be mentioned.																								
e.	Port of Shipment : Country of Manufacturer.																								
f.	Offer Validity : 180 days from tender opening date.																								
g.	All Items are treated as a package and offer to be submitted as package.																								
h.	<u>Pre-Shipment Inspection:</u>																								
i.	3 (Three) members {2 (Two) members from BOF & 1 (One) member from IA&E} for a period of 5 (Five) 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, 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 P 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/manufacturer can submit only **one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacturer 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/manufacturer they poses necessary **export permit** from the concern ministry or **chamber of commerce** of their country. They must also submit a certificate in this regard as per the attached specimen format at Annex N.
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 L).
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 M, **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.**
 - d. **Authorization to Local Agent by Principal.**

ANNEX B TO
BOF TENDER NO 23.27.0000.167.283(III).3256105.21.22
DATED 29 DECEMBER 2022

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR FUZE PD M557 FOR CARTS QF 105 MM HOW HE BD-20 OR ANY OTHER FUZE COMPATIBILITY AND TECHNICALLY SUPPORTED WITH CARTS QF 105 MM HOW HE BD-20, QUANTITY-3,000 NUMBERS

1. **General Requirements.**

- a. The fuze must be brand new, free from all kinds of defects, damages and suitable for assembling and use with BOF products Carts QF 105 mm How HE BD-20 complete. In this regard suitability certificate will be provided by the manufacturer along with the offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store should be current year i.e. contracted calendar year. 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 to this effect by the manufacturer along with the offer and stores.
- e. Quality control and inspection certificate should be provided by the manufacturer along with the stores.
- f. The store should be of one lot but not more than two lots.
- g. Guarantee certificate of the store should be provided by the manufacturer along with the offer and stores.
- h. 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 supplied are brand new, free from impurities and that in the event of any shortage, defects/damages being found after inspection the store should be replaced by the supplier at their own cost within 04 (four) months of the case arises. The warranty period of the stores will be 12 (twelve) months from the date of issue of "Inspection Note" by IA&E.
 - (2) **Shelf life Certificate.** The shelf life of the store will be minimum 15 (fifteen) years under international storage condition and will be suitable for tropical climate. If the packed store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 04 (four) months as the case arises.
- j. All marking and other details should be in distinct English language.
- k. All certificates and letter of authorization should be original and English language.
- l. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer and store (Laminated/computer printed catalogue/ brochure is not acceptable).

2. **Packing.**

- a. The store should be packed as per factory/international standard.
- b. The colour of boxes should be olive green.
- c. Boxes for books and publication and sectionized model should be painted white.
- d. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- e. The fuze are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Rail/Road. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.
- f. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage up to the shelf life of the store i. e. (minimum 15 years). The manufacturer should give a certificate to this effect along with the offer and stores.

3. **Marking.**

- a. Following marking to be stenciled on the top of the boxes:
 - (1) Consignee – Commandant, Bangladesh Ordnance Factories, Gazipur cantonment, 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 fuze.
 - (3) Lot number, year of manufacturer and factory code.
 - (4) safety distance category.
 - (5) Govt explosive group (to be showing the red circle).
 - (6) IMDG code with explosion symbol.
 - (7) Dimension of the box.
 - (8) Net weight of the fuze.
 - (9) Gross weight of the box.
- c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number - 01/100, 02/100 and so on.
 - (2) UN number.
- d. Following marking should be engraved on the fuze body:
 - (1) Name of fuze.
 - (2) Lot number.
 - (3) Year of manufacture.
 - (2) Factory code.

4. **Environmental Condition.**

- a. Storage temperature range : 0°C to +50°C.
- b. Storage humidity minimum : 95%.
- c. Operating temperature range : -5°C to +55°C.
- d. Operating humidity minimum : 95%.

5. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier and should be mentioned in the tender.

6. **Pre-Shipment Inspection (PSI).**

- a. Pre-shipment Inspection (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 03 (Three) members {02 (Two) members from BOF & 01 (One) member from IA&E} for a period of 05 (Five) working days excluding journey period. The cost incurred by BOF PSI members will be borne by BOF and cost of IA&E PSI members will be borne by Bangladesh Army. Supplier should inform about the date of Pre-shipment Inspection (PSI) at least 08 (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.
- b. All types of movement/transportation (air/sea/road/rail), medical (if reqr) of the team within the manufacturer's country, reception and arrangement for entry into the country/concerned area for the PSI are also to be arranged by the supplier.
- c. Interpreter detailed by supplier for the pre-shipment inspection team should be competent enough to interpret the technical terms (as applicable).
- d. Provide necessary secretarial support (typing and printing facilities) to the pre-shipment inspection (PSI) team.
- e. The pre-shipment inspection (PSI) will be carried out at manufacturer's production plant/factory. Pre-shipment inspection (PSI) should include 100% visual inspection, functional/laboratory/chemical test and inspection of production line of same/similar type of equipment (if reqr). All equipment and facilities of test should be provided by the supplier. PSI team will check the parameters of the item as per technical requirements of the contract.
- f. 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.

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g. 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. After necessary rectification 2nd PSI may be held, if deficiency/discrepancy items are major in nature. In that case supplier will bear all PSI cost including Daily Allowance (DA) of the PSI team members.

h. If any PSI is not carried out by purchaser and intimated to supplier as such in written than the report of "Quality Assurance Department" of manufacturer will be consider as PSI report. This report should be provided along with the shipping documents.

j. **QAC Related Original Documents/Certificates:** Following **original** documents/certificates are to be furnished with the QAC. All test/Inspection result/results which was/were conducted by the quality control department of manufacturer to be furnished including the following:

- (1) Certificate of country of origin.
- (2) Certificate of country of manufacture/assembly.
- (3) Certificate of year of production.
- (4) Certificate of Military standard or any other as specified in the contract.
- (5) Certificate of warranty/guaranty as specified in the contract.
- (6) Certificate of quality assurance and genuineness.
- (7) Buy back certificate.
- (8) Functionality test certificate and test firing certificate for fulfillment the technical specification as per contract.
- (9) Laboratory test certificate for fulfillment of the technical specification as per contract.
- (10) Environmental suitability certificate (suitability for tropical climate, humidity tolerance, operating temperature, storage temperature, salinity resistance) for fulfillment the technical specification as per contract.
- (11) Packing list as per contract.
- (12) All other certificates as mentioned in the contract and any other as deemed necessary.

k. All documents/certificates will be **original** and duly signed and stamped.

7. **Pre-Shipment Inspection (PSI) Test Firing.** Performance test of 05×Fuze from each lot to be carried out by PSI team. In this regards to make complete round 05×Set other components to be provided by the supplier at free of cost. No blind/partial detonation will be accepted.

8. **Post-Shipment Inspection.** The store on being received at the consignee`s end will be inspected by Inspectorate of Armaments and Explosive (IA&E) or authorize representative. If any article found to be contrary and not in accordance with the contract will be processed as per clause 1.h(1 & 2) above. At the time of inspection, PSI member, supplier or his local representatives and representatives of BOF shall remain present. Inspection report will be signed by all representatives. The inspectorate will issue final inspection report after receipt of stores at consignee`s end provided the visual inspection found satisfactory and the case of clarification/replacement of stores if any, is settled as per visual inspection formalities. 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 05×Fuze from each lot to be provided by the supplier at free of cost. Other components will be provided by BOF. No blind/partial detonation will be accepted.

10. **Part-Shipment.** Part-shipment is not allowed.

11. **Trans-Shipment.** Trans-shipment is not allowed.

12. **Authority Holding Sealed Particulars.** Chief Inspector, IA&E, Gazipur Cantonment.

13. **Inspecting Officer.** Chief Inspector, IA&E or his authorized representative.

14. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier.

15. **Country of Origin.** Any country.

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR PRIMER PERCUSSION P1, MK3 (SCREWED) OR ANY OTHER PRIMER COMPATIBLE AND TECHNICALLY SUPPORTED WITH CARTS QF 105 MM HOW HE BD-20, QUANTITY-4,000 NUMBERS

1. **General Requirements.**

- a. The primer must be brand new, free from all kinds of defects, damages and suitable for assembling and use with BOF products Carts QF 105 mm How HE BD-20 complete. In this regard suitability certificate will be provided by the manufacturer along with the offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store should be current year i.e. contracted calendar year. 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 to this effect by the manufacturer along with the offer and stores.
- e. Quality control and inspection certificate should be provided by the manufacturer along with the stores.
- f. The store should be of one lot but not more than two lots.
- g. Guarantee certificate of the store should be provided by the manufacturer along with the offer and stores.
- h. 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 supplied are brand new, free from impurities and that in the event of any shortage, defects/damages being found after inspection the store should be replaced by the supplier at their own cost within 04 (four) months of the case arises. The warranty period of the stores will be 12 (twelve) months from the date of issue of "Inspection Note" by IA&E.
 - (2) **Shelf life Certificate.** The shelf life of the store will be minimum 15 (fifteen) years under international storage condition and will be suitable for tropical climate. If the packed store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 04 (four) months as the case arises.
- j. All marking and other details should be in distinct English language.
- k. All certificates and letter of authorization should be original and English language.
- l. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer and store (Laminated/computer printed catalogue/ brochure is not acceptable).

2. **Packing.**

- a. The store should be packed as per factory/ international standard.
- b. The colour of boxes should be olive green.
- c. Boxes for books and publication and sectionized model should be painted white.
- d. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- e. The primers are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Rail/Road. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.
- f. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage up to the shelf life of the store i.e. (minimum 15 years). The manufacturer should give a certificate to this effect along with the offer and stores.

3. **Marking.**

- a. Following marking to be stenciled on the top of the boxes:
 - (1) Consignee – Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Bangladesh.
 - (2) Contract number and date
- b. Following marking to be stenciled on the front side of the boxes:
 - (1) Number of primer packed.
 - (2) Full nomenclature of store.
 - (3) Lot number, year of manufacturer and factory code.
 - (4) Safety distance category.
 - (5) Govt explosive group (to be showing the red circle).
 - (6) IMDG code with explosion symbol.
 - (7) Dimension of the box.
 - (8) Net weight of the Primer.
 - (9) Gross weight of the box.
- c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number - 01/100, 02/100 and so on.
 - (2) UN number.
- d. Following marking should be engraved base of the primer:
 - (1) Name of primer.
 - (2) Lot number.
 - (3) Year of manufacture.
 - (2) Factory code.

4. **Environmental Condition.**

- a. Storage temperature range : 0°C to +50°C.
- b. Storage humidity minimum : 95%.
- c. Operating temperature range : -5°C to +55°C.
- d. Operating humidity minimum : 95%.

5. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier and should be mentioned in the tender.

6. **Pre-shipment Inspection (PSI).**

- a. Pre-shipment Inspection (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 03 (Three) members {02 (Two) members from BOF & 01 (One) member from IA&E} for a period of 05 (Five) working days excluding journey period. The cost incurred by BOF PSI members will be borne by BOF and cost of IA&E PSI members will be borne by Bangladesh Army. Supplier should inform about the date of Pre-shipment Inspection (PSI) at least 08 (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.
- b. All types of movement/transportation (air/sea/road/rail), medical (if reqr) of the team within the manufacturer's country, reception and arrangement for entry into the country/concerned area for the PSI are also to be arranged by the supplier.
- c. Interpreter detailed by supplier for the pre-shipment inspection team should be competent enough to interpret the technical terms (as applicable).
- d. Provide necessary secretarial support (typing and printing facilities) to the pre-shipment inspection (PSI) team.
- e. The pre-shipment inspection (PSI) will be carried out at manufacturer's production plant/factory. Pre-shipment inspection (PSI) should include 100% visual inspection, functional/laboratory/chemical test and inspection of production line of same/similar type of equipment (if reqr). All equipment and facilities of test should be provided by the supplier. PSI team will check the parameters of the item as per technical requirements of the contract.
- f. 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.

g. 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. After necessary rectification 2nd PSI may be held, if deficiency/discrepancy items are major in nature. In that case supplier will bear all PSI cost including Daily Allowance (DA) of the PSI team members.

h. If any PSI is not carried out by purchaser and intimated to supplier as such in written than the report of "Quality Assurance Department" of manufacturer will be consider as PSI report. This report should be provided along with the shipping documents.

j. **QAC Related Original Documents/Certificates:** Following **original** documents/certificates are to be furnished with the QAC. All test/Inspection result/results which was/were conducted by the quality control department of manufacturer to be furnished including the following:

- (1) Certificate of country of origin.
- (2) Certificate of country of manufacture/assembly.
- (3) Certificate of year of production.
- (4) Certificate of Military standard or any other as specified in the contract.
- (5) Certificate of warranty/guaranty as specified in the contract.
- (6) Certificate of quality assurance and genuineness.
- (7) Buy back certificate.
- (8) Functionality test certificate and test firing certificate for fulfillment the technical specification as per contract.
- (9) Laboratory test certificate for fulfillment of the technical specification as per contract.
- (10) Environmental suitability certificate (suitability for tropical climate, humidity tolerance, operating temperature, storage temperature, salinity resistance) for fulfillment the technical specification as per contract.
- (11) Packing list as per contract.
- (12) All other certificates as mentioned in the contract and any other as deemed necessary.

k. All documents/certificates will be original and duly signed and stamped.

7. **Pre-Shipment Inspection (PSI) Test Firing.** Performance test of 05×Primer from each lot to be carried out by PSI team. In this regards to make complete round 05×Set other components to be provided by the supplier at free of cost. No misfire will be accepted.

8. **Post-Shipment Inspection.** The store on being received at the consignee`s end will be inspected by Inspectorate of Armaments and Explosive (IA&E) or authorize representative. If any article found to be contrary and not in accordance with the contract will be processed as per clause 1.h(1 & 2) above. At the time of inspection, PSI member, supplier or his local representatives and representatives of BOF shall remain present. Inspection report will be signed by all representatives. The inspectorate will issue final inspection report after receipt of stores at consignee`s end provided the visual inspection found satisfactory and the case of clarification/replacement of stores if any, is settled as per visual inspection formalities. Part inspection note will not be issued.

9. **Post-Shipment Inspection Test Firing.** Function of Primer will be checked by test firing during post shipment inspection. In this regard 05×Primer from each lot to be provided by the supplier at free of cost. Other components will be provided by BOF. No misfire will be accepted.

10. **Part-Shipment.** Part-shipment is not allowed.

11. **Trans-Shipment.** Trans-shipment is not allowed.

12. **Authority Holding Sealed Particulars.** Chief Inspector, IA&E, Gazipur Cantonment.

13. **Inspecting Officer.** Chief Inspector, IA&E or his authorized representative.

14. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier.

15. **Country of Origin.** Any country.

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR PROPELLANT (MULTI PERFORATED) SINGLE BASE FLASHLESS AND SMOKELESS M1 TYPE (MULTI PERFORATED) OR ANY OTHER PROPELLANT COMPATIBLE AND TECHNICALLY SUPPORTED WITH CARTS QF 105 MM HOW HE BD-20, QUANTITY-3,000 KG

1. **General Requirements.**

- a. The propellant must be brand new, free from all kinds of defects, damages and suitable for use with BOF products Carts QF 105 mm How HE BD-20 complete. In this regard suitability certificate will be provided by the manufacturer along with offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store should be current year i.e. contracted calendar year. 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 to this effect by the manufacturer along with the offer and stores.
- e. Laboratory test report with percentage of chemical composition should be provided by the manufacturer along with the offer and stores.
- f. The store should be of one lot but not more than two lots.
- g. Guarantee certificate of the store should be provided by the manufacturer along with the offer and stores.
- h. 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 supplied are brand new, free from impurities and that in the event of any shortage, defects/damages being found after inspection the store should be replaced by the supplier at their own cost within 04 (four) months of the case arises. The warranty period of the stores will be 12 (twelve) months from the date of issue of "Inspection Note" by IA&E.
 - (2) **Shelf life Certificate.** The shelf life of the store will be minimum 15 (fifteen) years under international storage condition and will be suitable for tropical climate. If the packed store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 04 (four) months as the case arises.
- j. All marking and other details should be in distinct English language.
- k. All certificates and letter of authorization should be original and English language.
- l. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer and store (Laminated/computer printed catalogue/ brochure is not acceptable).

2. **Packing.**

- a. The store should be packed as per factory/international standard.
- b. The colour of boxes should be olive green.
- c. Boxes for books and publication should be painted white.
- d. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- e. The store are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Rail/Road. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.
- f. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage up to the shelf life of the store i. e. (minimum 15 years). The manufacturer should give a certificate to this effect along with the offer and stores.

3. **Marking.**

- a. Following marking to be stenciled on the top of the boxes:
 - (1) Consignee – Commandant, Bangladesh Ordnance Factories, Gazipur cantonment, Bangladesh.
 - (2) Contract number and date
- b. Following marking to be stenciled on the front side of the boxes:
 - (1) Weight of propellant.
 - (2) Full nomenclature of store.
 - (3) Lot number, year of manufacturer and factory code.
 - (4) Safety distance category.
 - (5) Govt explosive group (to be showing the red circle).
 - (6) IMDG code with explosion symbol.
 - (7) Dimension of the box.
 - (8) Net weight of the propellant.
 - (9) Gross weight of the box.
- c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number - 01/100, 02/100 and so on.
 - (2) UN number.

4. **Environmental Condition.**

- a. Storage temperature range : 0°c to +50°c.
- b. Storage humidity minimum : 95%.
- c. Operating temperature range : -5°c to +55°c.
- d. Operating humidity minimum : 95%.

5. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier and should be mentioned in the tender.

6. **Pre-shipment Inspection (PSI).**

- a. Pre-shipment Inspection (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 03 (Three) members {02 (Two) members from BOF & 01 (One) member from IA&E} for a period of 05 (Five) working days excluding journey period. The cost incurred by BOF PSI members will be borne by BOF and cost of IA&E PSI members will be borne by Bangladesh Army. Supplier should inform about the date of Pre-shipment Inspection (PSI) at least 08 (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.
- b. All types of movement/transportation (air/sea/road/rail), medical (if reqr) of the team within the manufacturer`s country, reception and arrangement for entry into the country/concerned area for the PSI are also to be arranged by the supplier.
- c. Interpreter detailed by supplier for the pre-shipment inspection team should be competent enough to interpret the technical terms (as applicable).
- d. Provide necessary secretarial support (typing and printing facilities) to the pre-shipment inspection (PSI) team.
- e. The pre-shipment inspection (PSI) will be carried out at manufacturer's production plant/factory. Pre-shipment inspection (PSI) should include 100% visual inspection, functional/laboratory/chemical test and inspection of production line of same/similar type of equipment (if reqr). All equipment and facilities of test should be provided by the supplier. PSI team will check the parameters of the item as per technical requirements of the contract.
- f. 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.
- g. 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. After necessary rectification 2nd PSI may be held, if deficiency/discrepancy items are major in nature. In that case supplier will bear all PSI cost including Daily Allowance (DA) of the PSI team members.
- h. If any PSI is not carried out by purchaser and intimated to supplier as such in written than the report of "Quality Assurance Department" of manufacturer will be consider as PSI report. This report should be provided along with the shipping documents.

j. **QAC Related Original Documents/Certificates:** Following **original** documents/certificates are to be furnished with the QAC. All test/Inspection result/results which was/were conducted by the quality control department of manufacturer to be furnished including the following:

- (1) Certificate of country of origin.
- (2) Certificate of country of manufacture.
- (3) Certificate of year of production.
- (4) Certificate of Military standard or any other as specified in the contract.
- (5) Certificate of warranty/guaranty as specified in the contract.
- (6) Certificate of quality assurance and genuineness.
- (7) Buy back certificate.
- (8) Functionality test certificate and test firing certificate for fulfillment the technical specification as per contract.
- (9) Laboratory test certificate for fulfillment of the technical specification as per contract.
- (10) Environmental suitability certificate (suitability for tropical climate, humidity tolerance, operating temperature, storage temperature, salinity resistance) for fulfillment the technical specification as per contract.
- (11) Packing list as per contract.
- (12) All other certificates as mentioned in the contract and any other as deemed necessary.

k. All documents/certificates will be original and duly signed and stamped.

7. **Pre-Shipment Inspection (PSI) Test Firing.**

- (1) Performance test of Propellant from each lot to be carried out by PSI team. In this regards to make complete round 05×Set other components to be provided by the supplier at free of cost.
- (2) Chemical composition to be tested by PSI team at contracted propellant during pre-shipment inspection.
- (3) Charge assessment, chamber pressure and velocity test to be carried out by PSI team.
- (4) Any other as deemed necessary by PSI team to check the performance as per contracted specification.

8. **Post-Shipment Inspection.** The store on being received at the consignee`s end will be inspected by Inspectorate of Armaments and Explosive (IA&E) or authorize representative. If any article found to be contrary and not in accordance with the contract will be processed as per clause 1.h(1 & 2) above. At the time of inspection, PSI member, supplier or his local representatives and representatives of BOF shall remain present. Inspection report will be signed by all representatives. The inspectorate will issue final inspection report after receipt of stores at consignee`s end provided the visual inspection found satisfactory and the case of clarification/replacement of stores if any, is settled as per visual inspection formalities. Part inspection note will not be issued.

9. **Post-Shipment Inspection Test Firing.** Function of propellant will be checked by test firing and laboratory test during post shipment inspection. In this regard 05 Kg propellant from same lot to be provided by the supplier at free of cost. Other components will be provided by BOF. No blind/partial detonation will be accepted.

8. **Part-Shipment.** Part-shipment is not allowed.

9. **Trans-Shipment.** Trans-shipment is not allowed.

10. **Authority Holding Sealed Particulars.** Chief Inspector, IA&E, Gazipur Cantonment.

11. **Inspecting Officer.** Chief Inspector, IA&E or his authorized representative.

12. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier.

13. **Country of Origin.** Any country.

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR PROPELLANT (SINGLE PERFORATED) SINGLE BASE FLASHLESS AND SMOKELESS M1 TYPE (SINGLE PERFORATED) OR ANY OTHER PROPELLANT COMPATIBLE AND TECHNICALLY SUPPORTED WITH CARTS QF 105 MM HOW HE BD-20, QUANTITY-1,000 KG

1. **General Requirements.**

- a. The propellant must be brand new, free from all kinds of defects, damages and suitable for use with BOF products Carts QF 105 mm How HE BD-20 complete. In this regard suitability certificate will be provided by the manufacturer along with offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store should be current year i.e. contracted calendar year. 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 to this effect by the manufacturer along with the offer and stores.
- e. Laboratory test report with percentage of chemical composition should be provided by the manufacturer along with the offer and stores.
- f. The store should be of one lot but not more than two lots.
- g. Guarantee certificate of the store should be provided by the manufacturer along with the offer and stores.
- h. 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 supplied are brand new, free from impurities and that in the event of any shortage, defects/damages being found after inspection the store should be replaced by the supplier at their own cost within 04 (four) months of the case arises. The warranty period of the stores will be 12 (twelve) months from the date of issue of "Inspection Note" by IA&E.
 - (2) **Shelf life Certificate.** The shelf life of the store will be minimum 15 (fifteen) years under international storage condition and will be suitable for tropical climate. If the packed store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 04 (four) months as the case arises.
- j. All marking and other details should be in distinct English language.
- k. All certificates and letter of authorization should be original and English language.
- l. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer and store (Laminated/computer printed catalogue/ brochure is not acceptable).

2. **Packing.**

- a. The store should be packed as per factory/international standard.
- b. The colour of boxes should be olive green.
- c. Boxes for books and publication should be painted white.
- d. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- e. The store are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Rail/Road. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.
- f. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage up to the shelf life of the store i. e. (minimum 15 years). The manufacturer should give a certificate to this effect along with the offer and stores.

3. **Marking.**

- a. Following marking to be stenciled on the top of the boxes:
 - (1) Consignee – Commandant, Bangladesh Ordnance Factories, Gazipur cantonment, Bangladesh.
 - (2) Contract number and date
- b. Following marking to be stenciled on the front side of the boxes:
 - (1) Weight of propellant.
 - (2) Full nomenclature of store.
 - (3) Lot number, year of manufacturer and factory code.
 - (4) Safety distance category.
 - (5) Govt explosive group (to be showing the red circle).
 - (6) IMDG code with explosion symbol.
 - (7) Dimension of the box.
 - (8) Net weight of the propellant.
 - (9) Gross weight of the box.
- c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number - 01/100, 02/100 and so on.
 - (2) UN number.

4. **Environmental Condition.**

- a. Storage temperature range : 0°c to +50°c.
- b. Storage humidity minimum : 95%.
- c. Operating temperature range : -5°c to +55°c.
- d. Operating humidity minimum : 95%.

5. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier and should be mentioned in the tender.

6. **Pre-shipment Inspection (PSI).**

- a. Pre-shipment Inspection (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 03 (Three) members {02 (Two) members from BOF & 01 (One) member from IA&E} for a period of 05 (Five) working days excluding journey period. The cost incurred by BOF PSI members will be borne by BOF and cost of IA&E PSI members will be borne by Bangladesh Army. Supplier should inform about the date of Pre-shipment Inspection (PSI) at least 08 (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.
- b. All types of movement/transportation (air/sea/road/rail), medical (if reqr) of the team within the manufacturer`s country, reception and arrangement for entry into the country/concerned area for the PSI are also to be arranged by the supplier.
- c. Interpreter detailed by supplier for the pre-shipment inspection team should be competent enough to interpret the technical terms (as applicable).
- d. Provide necessary secretarial support (typing and printing facilities) to the pre-shipment inspection (PSI) team.
- e. The pre-shipment inspection (PSI) will be carried out at manufacturer's production plant/factory. Pre-shipment inspection (PSI) should include 100% visual inspection, functional/laboratory/chemical test and inspection of production line of same/similar type of equipment (if reqr). All equipment and facilities of test should be provided by the supplier. PSI team will check the parameters of the item as per technical requirements of the contract.
- f. 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.
- g. 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. After necessary rectification 2nd PSI may be held, if deficiency/discrepancy items are major in nature. In that case supplier will bear all PSI cost including Daily Allowance (DA) of the PSI team members.
- h. If any PSI is not carried out by purchaser and intimated to supplier as such in written than the report of "Quality Assurance Department" of manufacturer will be consider as PSI report. This report should be provided along with the shipping documents.

- j. **QAC Related Original Documents/Certificates:** Following **original** documents/certificates are to be furnished with the QAC. All test/Inspection result/results which was/were conducted by the quality control department of manufacturer to be furnished including the following:
- (1) Certificate of country of origin.
 - (2) Certificate of country of manufacture.
 - (3) Certificate of year of production.
 - (4) Certificate of Military standard or any other as specified in the contract.
 - (5) Certificate of warranty/guaranty as specified in the contract.
 - (6) Certificate of quality assurance and genuineness.
 - (7) Buy back certificate.
 - (8) Functionality test certificate and test firing certificate for fulfillment the technical specification as per contract.
 - (9) Laboratory test certificate for fulfillment of the technical specification as per contract.
 - (10) Environmental suitability certificate (suitability for tropical climate, humidity tolerance, operating temperature, storage temperature, salinity resistance) for fulfillment the technical specification as per contract.
 - (11) Packing list as per contract.
 - (12) All other certificates as mentioned in the contract and any other as deemed necessary.
- k. All documents/certificates will be original and duly signed and stamped.
7. **Pre-Shipment Inspection (PSI) Test Firing.**
- (1) Performance test of Propellant from each lot to be carried out by PSI team. In this regards to make complete round 05×Set other components to be provided by the supplier at free of cost.
 - (2) Chemical composition to be tested by PSI team at contracted propellant during pre-shipment inspection.
 - (3) Charge assessment, chamber pressure and velocity test to be carried out by PSI team.
 - (4) Any other as deemed necessary by PSI team to check the performance as per contracted specification.
8. **Post-Shipment Inspection.** The store on being received at the consignee`s end will be inspected by Inspectorate of Armaments and Explosive (IA&E) or authorize representative. If any article found to be contrary and not in accordance with the contract will be processed as per clause 1.h(1 & 2) above. At the time of inspection, PSI member, supplier or his local representatives and representatives of BOF shall remain present. Inspection report will be signed by all representatives. The inspectorate will issue final inspection report after receipt of stores at consignee`s end provided the visual inspection found satisfactory and the case of clarification/replacement of stores if any, is settled as per visual inspection formalities. Part inspection note will not be issued.
9. **Post-Shipment Inspection Test Firing.** Function of propellant will be checked by test firing and laboratory test during post shipment inspection. In this regard 05 Kg propellant from same lot to be provided by the supplier at free of cost. Other components will be provided by BOF. No blind/partial detonation will be accepted.
8. **Part-Shipment.** Part-shipment is not allowed.
9. **Trans-Shipment.** Trans-shipment is not allowed.
10. **Authority Holding Sealed Particulars.** Chief Inspector, IA&E, Gazipur Cantonment.
11. **Inspecting Officer.** Chief Inspector, IA&E or his authorized representative.
12. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier.
13. **Country of Origin.** Any country.

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR DOUBLE BASE PROPELLANT WM-107 FOR CARTS QF 105 MM HOW BLANK BD-20 AMMUNITION, QUANTITY-1,000 KG

1. **General Requirements.**

- a. The propellant must be brand new, free from all kinds of defects, damages and suitable for use with BOF products Carts QF 105 mm How Blank BD-20 ammunition. In this regard suitability certificate will be provided by the manufacturer along with offer and stores.
- b. The store must be suitable for use in tropical climate. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- c. The year of manufacture of the store should be current year i.e. contracted calendar year. 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 to this effect by the manufacturer along with the offer and stores.
- e. Laboratory test report with percentage of chemical composition should be provided by the manufacturer along with the offer and stores.
- f. The store should be of one lot but not more than two lots.
- g. Guarantee certificate of the store should be provided by the manufacturer along with the offer and stores.
- h. 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 supplied are brand new, free from impurities and that in the event of any shortage, defects/damages being found after inspection the store should be replaced by the supplier at their own cost within 04 (four) months of the case arises. The warranty period of the stores will be 12 (twelve) months from the date of issue of "Inspection Note" by IA&E.
 - (2) **Shelf life Certificate.** The shelf life of the store will be minimum 15 (fifteen) years under international storage condition and will be suitable for tropical climate. If the packed store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 04 (four) months as the case arises.
- j. All marking and other details should be in distinct English language.
- k. All certificates and letter of authorization should be original and English language.
- l. **Technical Specification.** Original catalogue/brochure having technical and tactical data in English language should be provided by the manufacturer along with the offer and store (Laminated/computer printed catalogue/ brochure is not acceptable).

2. **Packing.**

- a. The store should be packed as per factory/international standard.
- b. The colour of boxes should be olive green.
- c. Boxes for books and publication should be painted white.
- d. A packing list/note showing lot detail and number of boxes against each lot should be furnished in each box.
- e. The store are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/Rail/Road. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.
- f. Packing material to be such that it will not be affected by damp, insects or any other harmful material during storage up to the shelf life of the store i. e. (minimum 15 years). The manufacturer should give a certificate to this effect along with the offer and stores.

3. **Marking.**

- a. Following marking to be stenciled on the top of the boxes:
 - (1) Consignee – Commandant, Bangladesh Ordnance Factories, Gazipur cantonment, Bangladesh.
 - (2) Contract number and date
- b. Following marking to be stenciled on the front side of the boxes:
 - (1) Weight of propellant.
 - (2) Full nomenclature of store.
 - (3) Lot number, year of manufacturer and factory code.
 - (4) Safety distance category.
 - (5) Govt explosive group (to be showing the red circle).
 - (6) IMDG code with explosion symbol.
 - (7) Dimension of the box.
 - (8) Net weight of the propellant.
 - (9) Gross weight of the box.
- c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number - 01/100, 02/100 and so on.
 - (2) UN number.

4. **Environmental Condition.**

- a. Storage temperature range : 0°c to +50°c.
- b. Storage humidity minimum : 95%.
- c. Operating temperature range : -5°c to +55°c.
- d. Operating humidity minimum : 95%.

5. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier and should be mentioned in the tender.

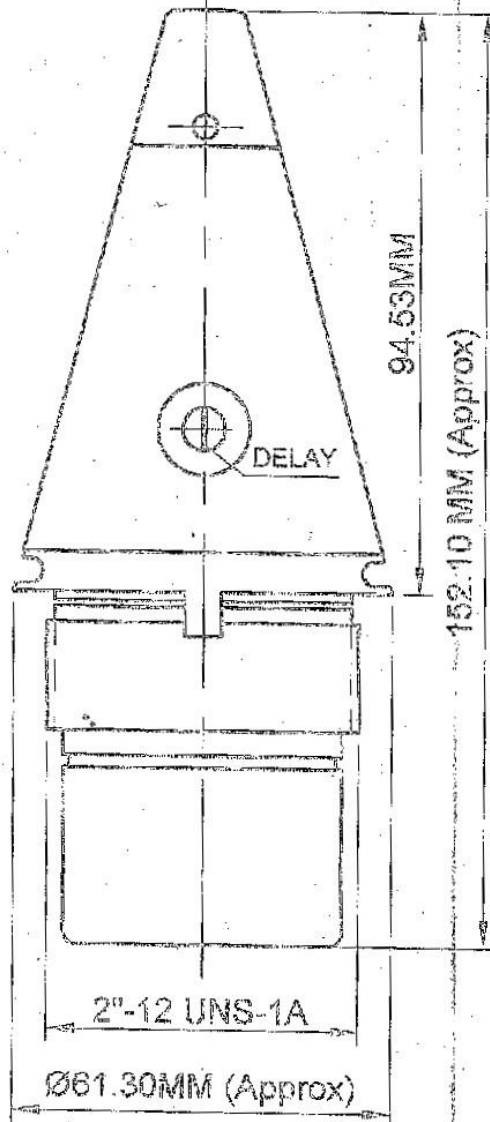
6. **Pre-shipment Inspection (PSI).**

- a. Pre-shipment Inspection (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 03 (Three) members {02 (Two) members from BOF & 01 (One) member from IA&E} for a period of 05 (Five) working days excluding journey period. The cost incurred by BOF PSI members will be borne by BOF and cost of IA&E PSI members will be borne by Bangladesh Army. Supplier should inform about the date of Pre-shipment Inspection (PSI) at least 08 (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.
- b. All types of movement/transportation (air/sea/road/rail), medical (if reqr) of the team within the manufacturer`s country, reception and arrangement for entry into the country/concerned area for the PSI are also to be arranged by the supplier.
- c. Interpreter detailed by supplier for the pre-shipment inspection team should be competent enough to interpret the technical terms (as applicable).
- d. Provide necessary secretarial support (typing and printing facilities) to the pre-shipment inspection (PSI) team.
- e. The pre-shipment inspection (PSI) will be carried out at manufacturer's production plant/factory. Pre-shipment inspection (PSI) should include 100% visual inspection, functional/laboratory/chemical test and inspection of production line of same/similar type of equipment (if reqr). All equipment and facilities of test should be provided by the supplier. PSI team will check the parameters of the item as per technical requirements of the contract.
- f. 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.
- g. 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. After necessary rectification 2nd PSI may be held, if deficiency/discrepancy items are major in nature. In that case supplier will bear all PSI cost including Daily Allowance (DA) of the PSI team members.
- h. If any PSI is not carried out by purchaser and intimated to supplier as such in written than the report of "Quality Assurance Department" of manufacturer will be consider as PSI report. This report should be provided along with the shipping documents.

- j. **QAC Related Original Documents/Certificates:** Following **original** documents/certificates are to be furnished with the QAC. All test/Inspection result/results which was/were conducted by the quality control department of manufacturer to be furnished including the following:
- (1) Certificate of country of origin.
 - (2) Certificate of country of manufacture.
 - (3) Certificate of year of production.
 - (4) Certificate of Military standard or any other as specified in the contract.
 - (5) Certificate of warranty/guaranty as specified in the contract.
 - (6) Certificate of quality assurance and genuineness.
 - (7) Buy back certificate.
 - (8) Functionality test certificate and test firing certificate for fulfillment the technical specification as per contract.
 - (9) Laboratory test certificate for fulfillment of the technical specification as per contract.
 - (10) Environmental suitability certificate (suitability for tropical climate, humidity tolerance, operating temperature, storage temperature, salinity resistance) for fulfillment the technical specification as per contract.
 - (11) Packing list as per contract.
 - (12) All other certificates as mentioned in the contract and any other as deemed necessary.
- k. All documents/certificates will be original and duly signed and stamped.
7. **Pre-Shipment Inspection (PSI) Test Firing.**
- (1) Performance test of Propellant from each lot to be carried out by PSI team. In this regards to make complete round 05×Set other components to be provided by the supplier at free of cost.
 - (2) Chemical composition to be tested by PSI team at contracted propellant during pre-shipment inspection.
 - (3) Charge assessment, chamber pressure and velocity test to be carried out by PSI team.
 - (4) Any other as deemed necessary by PSI team to check the performance as per contracted specification.
8. **Post-Shipment Inspection.** The store on being received at the consignee`s end will be inspected by Inspectorate of Armaments and Explosive (IA&E) or authorize representative. If any article found to be contrary and not in accordance with the contract will be processed as per clause 1.h(1 & 2) above. At the time of inspection, PSI member, supplier or his local representatives and representatives of BOF shall remain present. Inspection report will be signed by all representatives. The inspectorate will issue final inspection report after receipt of stores at consignee`s end provided the visual inspection found satisfactory and the case of clarification/replacement of stores if any, is settled as per visual inspection formalities. Part inspection note will not be issued.
9. **Post-Shipment Inspection Test Firing.** Function of propellant will be checked by test firing and laboratory test during post shipment inspection. In this regard 05 Kg propellant from same lot to be provided by the supplier at free of cost. Other components will be provided by BOF. No blind/partial detonation will be accepted.
8. **Part-Shipment.** Part-shipment is not allowed.
9. **Trans-Shipment.** Trans-shipment is not allowed.
10. **Authority Holding Sealed Particulars.** Chief Inspector, IA&E, Gazipur Cantonment.
11. **Inspecting Officer.** Chief Inspector, IA&E or his authorized representative.
12. **Inspection Certificate.** Final inspection certificate from the manufacturer should be provided along with store by the supplier.
13. **Country of Origin.** Any country.

**ANNEX G TO
BOF TENDER NO 23.27.0000.167.283(III).3256105.21.22
DATED 29 DECEMBER 2022**

WT = 961.6gm (APPROX)



			DRAWN BY	TAUMID
			CHECKED BY	<i>[Signature]</i>
			APPROVED BY	<i>[Signature]</i>
			BASED ON	SKETCH
			SCALE	1:1
04-11-2021			MATERIAL	
DATE	AMENDMENT	SIGN	DATE	02-09-2020
FUZE PD M 557 FOR 105MM HE & SMK			DRG SKETCH NO- 1239A	
			NO OF SHTS.-1	SHT NO.-1

**ANNEX H TO
BOF TENDER NO 23.27.0000.167.283(III).3256105.21.22
DATED 29 DECEMBER 2022**

