

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR PRIMER PERCUSSION TK, M82P2 OR EQUIVAENT (TO BE COMPATIBLE AND TECHNICALLY SUPPORTER WITH CARTS QF 155 MM CARTS QF 155 MM HOW HE), FUZE MUST BE COMPATIBLE WITH ALL NATO STANDARD 155 TOWED GUN/HOW/GUN-HOW/ TRUCK-MOUNTED/ SELF PROPELLED SYSTEM; LIKE : M94 (BONIA & HERZEGOVINA), M12 (SERBIA), NORA-B52 (SERBIA), M777 (USA), KH179 (S.KOREA) AND SIAC (SPIAN) ETC (QUANTITY-1,000)

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 primer must be compatible with all NATO standard 155 Towed Gun/How/Gun-How/Truck-Mounted/Self Propelled System; Like: M94 (Bosnia & Herzegovina), M12 (Serbia), NORA-B52 (Serbia), M777 (USA), Kh179 (S. Korea) and Siac (Spain) etc. 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 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 manufacture. 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.

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:

<u>PRIMER PERCUSSION TK, M8P2 OR EQUIVAENT</u>	
a.	Length : 49.8 mm Max or to be mentioned in the technical manual
b.	Weight : 64 gm or to be mentioned in the technical manual
c.	Outer Diameter of mouth : 11.3 mm or to be mentioned in the technical manual
d.	Outer Diameter of base : 12.4 mm or to be mentioned in the technical manual
e.	Diameter of the Primer over rim : 15.25 mm or to be mentioned in the technical manual
f.	Thickness of the Primer case at the mouth : 0.5 mm or to be mentioned in the technical manual

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/RailRoad. 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 upto 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) 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 be issued.

9. **Post-Shipment Inspection Test Firing.** Function of Primer will be checked by test firing during post shipment inspection. In this regard 05xPrimer 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 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 manufacrer should be provided along with store by the supplier.

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

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR CHARGE PROPELLING M4A2 FROM ZONE 3 TO 7 (NC-70 SINGLE BASE) FOR 155 MM HOW (QUANTITY-300 KG)

1. **General Requirements.**

- a. The Charge proelling M4A2 from Zone 3 to 7 (NC-70 Single Base) for 155 MM How must be brand new, free from all kinds of defects, damages and suitable for use with BOF products. 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 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 manufacture. 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.

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:

<u>CHARGE PROPELLING M4A2 FROM ZONE 3 TO 7 OR EQUIVALENT TO BE MENTIONED IN THE TECHNICAL MANUAL</u>	
a.	<u>Shape and size of the propelling charge M4A2 bag</u> : For clean burning igniter (CBI) a single based NC-70 propellant is used while double base NCD-27 Propelled is used for incements 3 to 7
b.	<u>Muzzle velocity for each charge, propelling, 155 mm, M4A2</u> : Zone3W: 301 m/s, Zone4W: 341 m/s, Zone5W: 402 m/s, Zone6W: 480 m/s, Zone7W: 576 m/s,
c.	<u>Maximum Chamber Pressure with full charge</u> : 2617 bar in Zone7
d.	<u>Shape and size of propellants</u> : Type of propellant : NC-70 (single based), Outside diameter : 1.10 mm, Inner diameter : 0.00 mm, Length : 1.50 mm, Number of perporation : 0, Web : 0.55 mm

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 stores 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 upto 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) 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 reqd) 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 reqd). 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.
- (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 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 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 manufacrer should be provided along with store by the supplier.

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

GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR CHARGE PROPELLING M4A2 FROM ZONE 3 TO 7 (NCD-27, SINGLE BASE) FOR 155 MM HOW (QUANTITY-6,450 KG)

1. **General Requirements.**

- a. The Charge proelling M4A2 from Zone 3 to 7 (NCD-27 **Single** Base) for 155 MM How must be brand new, free from all kinds of defects, damages and suitable for use with BOF products. 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 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 manufacture. 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.

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:

<u>CHARGE PROPELLING M4A2 FROM ZONE 3 TO 7 OR EQUIVALENT TO BE MENTIONED IN THE TECHNICAL MANUAL</u>	
a.	<u>Shape and size of the propelling charge M4A2 bag</u> : For clean burning igniter (CBI) a single based NC-70 propellant is used while single base NCD-27 Propelled is used for incements 3 to 7
b.	<u>Muzzle velocity for each charge, propelling, 155 mm, M4A2</u> : Zone3W: 301 m/s, Zone4W: 341 m/s, Zone5W: 402 m/s, Zone6W: 480 m/s, Zone7W: 576 m/s,
c.	<u>Maximum Chamber Pressure with full charge</u> : 2617 bar in Zone7
d.	<u>Shape and size of propellants</u> : Type of propellant : NCD-27 (Single base), Outside diameter : 4.60 mm, Inner diameter : 0.36 mm, Length : 11.00 mm, Number of perporation : 7, Web : 0.88 mm

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 stores 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 upto 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) 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 reqd) 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 reqd). 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.
- (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 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 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 manufacrer should be provided along with store by the supplier.

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