

Annex- A TO

Tender No 23.27.0000.166.36.3256105.21.22

Date 19-7-2021

NECESSARY DETAILS

| Ser | Nomenclature & Specification | Unit | Qty | Rates (Taka) (In figure & word) | Rmks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|-----------|--|------------------------------------|-------|------|---|----------------|-----------|----------------------|---|---|-----------------|----|---------|---|---|-----------------------|----|---------|---|---|------------------|---|--------|---|---|-------------|---|-------|--|---|---------|---|--|-----------------|---|-----------------|---|--------------------------|---|----|-----|--|--|
| 1. | Rectified Spirit (C₂H₅OH) Purity : 95.5% Boiling point : 78°C Density: 0.8 at 20°C temperature. After preparing Extra Nutral Alcohol (ENA), it should be passed in oxidation test. storage time must be 1.5 Years from issue of inspection note. Country: Any Country | Ltr | 1,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Antimony sulfide 1. Gray Black, Sb ≥ 70.5% 2. Appearance : Gray black colour processed powder with metallic luminosity no visible impurities needle like crystals. 3. Water Content ≤ 0.02% 4. Combined sulpher: 25-29.5% 5. Free sulpher ≥ 0.07% 6. Insoluble in HCl ≥ 1.5% 7. Insoluble in Aqua regia ≥ 0.5% 8. Arsenic Sulphide ≥ 0.7% 9. Sp. Gravity (Room Temp.): (4.5 - 4.75) 10. Accepted Grain Limit : (a) Grain Size: (0.081- 0.200) mm (it should contain all types grains within the range) (b) Accepted amount: (71-80)% 11. Dust limit : (a) Grain Size: ≤ 0.081mm. (b) Accepted amount: (20-29)% storage time must be 5 Years from issue of inspection note. Country: Any Country | kg | 1,300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Pigment MB Blue (Granular Type) <table border="1"> <thead> <tr> <th>Ser</th> <th>Properties</th> <th>Unit</th> <th>Value</th> <th>Rmks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Physical State</td> <td>Ap aren t</td> <td>Blue Colour Granular</td> <td>-</td> </tr> <tr> <td>2</td> <td>Melting Point°C</td> <td>°C</td> <td>120~140</td> <td>-</td> </tr> <tr> <td>3</td> <td>Sustained Temperature</td> <td>°C</td> <td>Max 300</td> <td>-</td> </tr> <tr> <td>4</td> <td>Moisture Content</td> <td>%</td> <td>≤ 0.23</td> <td>-</td> </tr> <tr> <td>5</td> <td>Ash Content</td> <td>%</td> <td>20~30</td> <td></td> </tr> <tr> <td>6</td> <td>Carrier</td> <td>-</td> <td>Suitable for HDPE Polyamide-12 and ABS</td> <td>To be mentioned</td> </tr> <tr> <td>7</td> <td>Resin Stability</td> <td>-</td> <td>PE,PP,Nylon, PA, ABS etc</td> <td>-</td> </tr> </tbody> </table> Country: Any Country | Ser | Properties | Unit | Value | Rmks | 1 | Physical State | Ap aren t | Blue Colour Granular | - | 2 | Melting Point°C | °C | 120~140 | - | 3 | Sustained Temperature | °C | Max 300 | - | 4 | Moisture Content | % | ≤ 0.23 | - | 5 | Ash Content | % | 20~30 | | 6 | Carrier | - | Suitable for HDPE Polyamide-12 and ABS | To be mentioned | 7 | Resin Stability | - | PE,PP,Nylon, PA, ABS etc | - | kg | 150 | | |
| Ser | Properties | Unit | Value | Rmks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Physical State | Ap aren t | Blue Colour Granular | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Melting Point°C | °C | 120~140 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Sustained Temperature | °C | Max 300 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Moisture Content | % | ≤ 0.23 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Ash Content | % | 20~30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Carrier | - | Suitable for HDPE Polyamide-12 and ABS | To be mentioned | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Resin Stability | - | PE,PP,Nylon, PA, ABS etc | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Ser | Nomenclature & Specification | Unit | Qty | Rates (Taka) (In figure & word) | Rmks |
|-----|---|------|-----|------------------------------------|------|
| 4. | Varnish Oil Bitumen L01-22 or HG 2-587 ~ 67/RD 1219 (These item will be procured on basis of required advance sample which to be approved on the satisfactory result of functional and physical test from user/ production shop and after then must be accepted by IA&E section). storage time must be 5 Years from issue of inspection note. Country: Any Country | kg | 700 | | |

বিঃ দ্র :

ক। উল্লেখিত দর CD ও VAT ব্যতীত দাখিল করতে হবে। প্রয়োজনবোধে পণ্য খালাসের জন্য বিওএফ এর নিকট ছাড়পত্রের আবেদন করা যাবে।

খ। পণ্যের উৎস দেশ উল্লেখ না থাকলে কিংবা একাধিক উৎস দেশের বেলায় মূল্যোদ্ধতি প্রদান কালে অবশ্যই নির্দিষ্ট করে উৎস দেশ উল্লেখ করতে হবে।

গ। সংযুক্ত **Anx- B, C, D, E** মোতাবেক পণ্য সরবরাহ করতে হবে।

ঘ। বৈদেশিক উৎস হতে পণ্য সরবরাহের ক্ষেত্রে পণ্য সরবরাহের প্রাক্কালে অবশ্যই আমদানী সংক্রান্ত কাগজপত্র, বিল অব লেডিং, শিপিং ডকুমেন্টস প্রদান করতে হবে।

ঙ। দেশীয় মুদ্রায় ক্রয়ের ক্ষেত্রে স্থানীয় উৎস হতে সরবরাহের ক্ষেত্রে ৩০ দিন এবং বৈদেশিক উৎস হতে সরবরাহের ক্ষেত্রে ৯০ দিন অথবা তৎপূর্বে পণ্য সরবরাহ করতে হবে।

চ। সরবরাহ আদেশ প্রদানের প্রাক্কালে মোট মূল্যের উপর ৫% হারে কম্যান্ড্যান্ট বিওএফ গাজীপুর ক্যান্ট এর অনুকূলে কার্য সম্পাদন জামানত হিসেবে পিএস (পে-অর্ডার) দাখিল করতে হবে। সন্তোষজনকভাবে পণ্য সরবরাহ এবং পরিদর্শনে গৃহীত হওয়ার পর উক্ত পে-অর্ডার/ডিডি ফেরৎ প্রদান করা হবে। পণ্য সরবরাহে ব্যর্থতায় দাখিলকৃত পে-অর্ডার বাতিল পূর্বক উক্ত অর্থ সরকারী কোষাগারে জমা করা হবে।

ছ। দেশীয় মুদ্রায় বিল পরিশোধের সময় প্রযোজ্য হারে ভ্যাট ও আয়কর কর্তন করা হবে।

জ। নিম্নলিখিত সনদপত্রের ফটোকপি দরপত্রের সাথে অবশ্যই সংযুক্ত করতে হবেঃ

- ১। ভ্যাট রেজিস্ট্রেশন সনদ
- ২। টি আই এন সনদ
- ৩। হালনাগাদ ট্রেড লাইসেন্স

দরপত্রে অংশগ্রহণকারীর স্বাক্ষর

(বড় অক্ষরে নাম)

‘সীলমোহর’

স্থান :

তারিখ :

Annex- B TO

Tender No 23.27.0000.166.36.3256105.21.22

Date 19-7-2021

GENERAL AND OTHER REQUIRE MENTS FOR ITEM NO-1 RECTIFIED SPIRIT AGAINST BOF INDENT NO 23.27.0000.223.007.3256105.02.21.22 DT 01 JUL 2021.

1. **General Requirements.**

a. The store should be as per specification, brand new, fresh, free from defect/impurities and suitable for end products. In this regards certificate should be provided along with the offer & stores.

b. **Tender sample 1.5 liter should be submitted alongwith the offer for necessary tests.**

c. After signing of contract before bulk supply advance sample minimum 27 (twenty seven liter) to be submitted for approval. Functional test will be conducted at user end under supervision of IA&E. This amount will not be additional. It will be taken from the supply order quantity.

d. Charge of all tests (if any) should be borne by the supplier.

e. Copies of all Certificate, Shipping documents, Bill of lading, Proforma invoice and packing list should be submitted to IA&E by BOF with MI slip.

f. 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 store.

g. The year of manufacture of the store should be of current year. Certificate should be provided to this effect by the manufacturer along with the offer and store.

h. All marking and other details should be in distinct English language.

j. All certificates and letter of authorization should be original and in English language.

k. 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 store.

l. Guarantee certificate on proper functioning and appropriate chemical composition of the stores should be provided by the supplier along with the offer and store.

2. Warranty and Shelf Life Certificate by the manufacturer as mentioned below should be furnished along with the offer and store.

(i) **Warranty Certificate.** The store supplied is 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 06 (six) month 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.

(ii) **Shelf Life Certificate.** The shelf life of store will be 1.5 (one point five) years from issue of "Inspection Note" by IA&E. If the store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 06 (six) months of the case arises.

3. Packing :

a. The store should be packed as per internationally accepted package/boxes or as per factory standard.

b. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.

c. 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 1.5 (One point five) years shelf life. The manufacturer should give a certificate to this effect while submitting offer and stores.

4. Marking on the Packing Box :
 - a. Following marking to be stenciled on the top of the boxes :
 - (1) Consignee :Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Bangladesh.
 - (2) Contract number & date.
 - b. Following marking to be stenciled on the front side of the boxes :
 - (1) Name of manufacturer.
 - (2) Full nomenclature of stores.
 - (3) Lot number & year of manufacture.
 - (4) Dimension of the box.
 - (5) Net weight of the store.
 - (6) Gross weight of the box.
 - c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number.
 - (2) Year of manufacture.
 - (3) Factory code.
 - (4) UN number.
5. Stencilled on the other side : "Handle Carefully".
6. **Inspection Certificate** : Final inspection certificate from the manufacturer should be provided along with store by the supplier.
7. **Part Shipment** : Part-Shipment is not allowed.
8. **Trans Shipment** : Trans-Shipment is not allowed.
9. **Authority Holding Sealed Particulars** : I A & E, Gazipur Cantt.
10. **Inspection Authority** : Chief Inspector, I A & E or his authorized representative.
11. **Country of Origin** : Any Country.

RESTRICTED

Annex- C TO

Tender No 23.27.0000.166.36.3256105.21.22

Date 19-7-2021

**GENERAL AND OTHER REQUIREMENTS FOR ITEM NO-3 ANTIMONY SULFIDE AGAINST BOF
INDENT NO 23.27.0000.223.007.3256105.02.21.22 DT 01 JUL 2021**

1. **General Requirements.**

a. The store should be as per specification, brand new, fresh, free from any impurities/contamination and suitable for end products. In this regards certificate should be provided along with the offer & stores.

b. **Tender sample 01 (one) kg should be submitted along with the offer for necessary tests.**

c. After signing of contract during bulk supply advance sample 10 (ten) Kg to be submitted for approval. Functional test will be conducted at user end under supervision of IA&E. This amount will not be additional. It will be taken from the supply order quantity.

d. Charge of all tests (if any) should be borne by the supplier.

e. Copies of all Certificate, Shipping documents, Bill of lading, Proforma invoice and packing list should be submitted to IA&E by BOF with MI slip.

f. 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 store.

g. The year of manufacture of the store should be of current year. Certificate should be provided to this effect by the manufacturer along with the offer and store.

h. All marking and other details should be in distinct English language.

j. All certificates and letter of authorization should be original and in English language.

k. 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 store.

l. Guarantee certificate on proper functioning and appropriate chemical composition of the stores should be provided by the supplier along with the offer and store.

2. Warranty and Shelf Life Certificate by the manufacturer as mentioned below should be furnished along with the offer and store.

(1) **Warranty Certificate.** The store supplied is 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 06 (six) month of the case arises. The warranty period of the stores will be 12 (tewelve) months from the date of issue of "Inspection Note" by IA&E.

(2) **Shelf Life Certificate.** The shelf life of store will be minimum 05 (five) years under normal storage condition and will be suitable for tropical climate. If the store is found defective within the shelf life of the store must be replaced by the supplier at their own cost (CFR basis) within 06 (six) months of the case arises.

3. Packing :

a. 50 (Fifty) kg of Antimony sulphide (Sb_2S_3) should be packed in a polyethylene and polyethylene should be sealed and then packed in a plastic container. The plastic container should be airtight sealed. Each sealed plastic container is to be kept in a wooden box. Boxes should be painted in military green.

b. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea. The box/package should have suitable means for holding by hands and should be easy to handle for storage and transportation.

d. 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 05 (five) years shelf life. The manufacturer should give a certificate to this effect while submitting offer and stores.

RESTRICTED

4. Marking on the Packing Box :
- a. Following marking to be stenciled on the top of the boxes:
 - (1) Consignee : Commandant, Bangladesh Ordnance Factory, Gazipur Cantonment, Bangladesh.
 - (2) Contract number & date.
 - b. Following marking to be stenciled on the front side of the boxes:
 - (1) Name of manufacturer.
 - (2) Full nomenclature of stores.
 - (3) Lot number & year of manufacture.
 - (4) Dimension of the box.
 - (5) Net weight of the store.
 - (6) Gross weight of the box.
 - c. Following marking should be stenciled on the right or left side of the boxes:
 - (1) Package number.
 - (2) Year of manufacture.
 - (3) Factory code.
 - (3) UN number.
 - d. Manufacturer and quality certificate should be attached with the container with the information :
 - (1) Manufacturer or its symbol.
 - (2) Result of chemical test.
 - (3) Lot number.
 - (4) Code no of specification.
 - (5) Date of testing.
5. **Inspection Certificate** : Final inspection certificate from the manufacturer should be provided along with store by the supplier.
6. **Part Shipment** : Part-Shipment is not allowed.
7. **Trans Shipment** : Trans-Shipment is not allowed.
8. **Authority Holding Sealed Particulars** : I A & E, Gazipur Cantt.
9. **Inspection Authority** : Chief Inspector, I A & E or his authorized representative.
10. **Country of Origin** : Any country.

RESTRICTED

Annex- E TO

Tender No 23.27.0000.166.36.3256105.21.22

Date 19-7-2021

**GENERAL AND OTHER REQUIREMENTS FOR ITEM NO-5 VARNISH OIL BITUMEN AGAINST BOF
INDENT NO 23.27.0000.223.007.3256105.02.21.22 DT 01 JUL 2021**

1. **General Requirements.**

- a. The store should brand new, fresh, free from impurities.
- b. Tender sample 01 (one) kg should be submitted along with the offer for necessary tests.
- c. After signing of contract during bulk supply advance sample 2 (Two) Kg to be submitted for approval. Functional test will be conducted at user end under supervision of IA&E. This amount will not be additional. It will be taken from the supply order quantity.
- d. Charge of test if any should be borne by the supplier.
- e. The year of manufacture of the store should be of current year. Certificate should be provided to this effect by the manufacturer along with the store.
- f. If the supplied item does not function properly within the storage life, the stores should be replaced by the supplier at their own cost.

2. **Warranty/Guarantee Certificate.** Warranty/Guarantee certificate from the manufacturer should be provided by the supplier to the effect that the stores supplied are brand new, complete of good material and workmanship throughout and that in the event of any shortage, defects damages being found after inspection the stores should be replaced by the supplier at their own cost within 06 (six) months of the case arises. The warranty/Guarantee period should be counted only after the inspection note is issued by inspectorate of Armament and Explosives (IA&E) and the period will be of 12 (twelve) months.

3. **Packing :**

- a. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/ Sea/Road/Rail. The packing marking will be done by this supplier so that the stores will not be affected by sea water rain water damp weather during transportation.

4. **Authority Holding Sealed Particulars :** I A & E, Gazipur Cantt.

5. **Inspection Authority :** Chief Inspector, I A & E or his authorized representative.

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

7. **Country of Origin :** Any Country.

Annex- D TO**Tender No 23.27.0000.166.36.3256105.21.22****Date 19-7-2021****GENERAL REQUIREMENTS AND OTHER TERMS AND CONDITIONS FOR PIGMENT MB BLUE(GRANULAR TYPE) AGAINST BOF INDENT NO 23.27.0000.223.007.3256105.02.21.22 DT 01 JUL 2021 QTY.150 KG.****1. General Requirements.**

- a. Pigment Blue must be granular in size, brand new (virgin), free from all defects, impurities and should be suitable for manufacturing BOF Products. Certificate should be provided to this effect by the manufacture along with the offer & 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 & store.
 - c. The year of manufacture of the store should be of current year i, e contract calendar year. Certificate should be provided to this effect by the manufacturer along with the offer and store.
 - 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 store.
 - e. Guarantee certificate for supply of store as per offer to be provided by the manufacturer along with the offer and store.
 - f. Warranty and Shelf Life Certificate by the manufacturer as mentioned below should be furnished along with the offer and store.
 - (1) **Warranty Certificate.** The store supplied is brand new, free from any defects, 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 90 (ninety) days of the case arises. During manufacturing BOF Products, if any defects/damages found then the supplier should replace the defective quantity of Pigment at their own cost within 03(three) month of the case arises. The warranty period of the stores will be 01(One) year from the date of issue of "Inspection Note" by IA&E.
 - (2) **Shelf Life Certificate.** The shelf life of the Pigment MB Green will be 15(fifteen) years from the date of manufacture. If the Pigment is found defective within the shelf life, it must be replaced by the supplier at their own cost within 03(three) months of the case arises.
 - g. Packing material to be such that it will not be affected by rust, damp, insects or any other harmful material during storage up to the shelf life. Certificate should be provided to this effect by the manufacturer along with the offer and store.
 - h. The stores should be preferably of 01 (one) lot but not more than 02(two) lots.
 - j. All marking and other details should be in English Language.
 - k. All certificates and letters of authorization should be original in English Language.
 - l. Quality Control and Inspection Certificate by the manufacturer must be provided along with the offer and store.
 - m. IA&E will issue final inspection report within one month after receipt the store at Consignee's end provided the visual inspection, chemical/laboratory and mechanical/functional test result are satisfactory and the case of clarification/replacement, if any is settle as per Visual inspection, chemical/laboratory, mechanical/ functional test are completed within the time (01 month) .P art Inspection note will not be issued.
2. **Technical Specification:** Physical and Mechanical Properties(Technical Specification) of the store mentioned in the indent should be tested from a recognized laboratory in Bangladesh like BOF, IA&E, BCSIR, BUET, Atomic Energy Commission etc.
3. **Catalogue / Brochure.** Original Catalogue/Brochure having technical information in English language should be provided by the manufacturer along with the offer. Laminated / Computer Printed Catalogue/Brochure is not acceptable. Chemical composition of the store should be mentioned in the offer.
4. **Tender Sample.** During tender stage **1.5 kg Pigment Blue** should be supplied by the supplier along with offer for necessary Visual Inspection, chemical/laboratory and mechanical/functional test.
5. Before bulk supply, advanced sample should be submitted to IA&E for final approval (if items manufactured locally).

6. **Manufacturer's Laboratory Test Result:** Laboratory test result of raw material (Chemical composition and mechanical properties) from the manufacturer should be provided along with the offer and stores by the supplier.
7. **Packing :**
- a. As per international packing procedure of the factory standard considering that the package should have suitable means for holding by hands and should be easy to handle during storage and transportation. Package of 25 kgs of pigment Blue is preferable.
 - b. A Packing List/Note showing lot details and number of box against each lot should be furnished in each box.
 - c. The stores are to be securely packed with sea worthy packing and clearly marked for safe transit by Air/Sea/ road / rail. The packing and marking will be done by the supplier in such a manner that stores will be not be affected by sea water, rust, rain water, and damp weather during transportation.
8. **Marking on the Packing Bag :**
- a. Following marking to be stenciled on the top of the box/package.
 - (1) Consignee: Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Bangladesh.
 - (2) Contract number & date.....
 - (3) Package number: 01/100, 02/100 and so on.
 - b. Following marking to be stenciled on the front side of the box/package.:
 - (1) Number of stores packed.
 - (2) Full nomenclature of stores.
 - (3) Lot number & year of manufacture, and factory code.
 - (4) Dimension of the box/package.
 - (5) Net weight of the box/package.
 - (6) Gross weight of the box/package
 - (7) Country of Origin
9. **Post-shipment Inspection :**
- a. Visual Inspection, chemical/laboratory and mechanical/functional test will be carried out by the post shipment Inspection team during Post shipment Inspection.
 - b. IA&E will carry out the various test of Pigment Blue.
10. **Authority Holding Sealed Particulars.** CI, IA&E, Gazipur Cantonment.
11. **Inspection Authority :** Chief Inspector, IA&E, Gazipur Cantonment or authorized representative.
12. **Part Shipment Inspection :** Part-Shipment Inspection is not allowed.
13. **Transshipment:** Transshipment is not allowed.
14. **Inspection Certificate :** Final inspection certificate from the manufacturer should be provided along with store by the supplier.
15. **Country of Origin :** Any country.