

**ANNEX 'B' TO**  
**TENDER NO 23.27.0000.166.202(IV).3256105.23.24**  
**DT. 09 APRIL 2024**

**GENERAL AND OTHER REQUIREMENTS OF GI SHEET AGAINST BOF INDENT NO 23.27.0000.223.087.3256105.04.22.23 DT 12 JAN 2023**

1. **General Requirements.**

- a. The store should be as per specification, brand new, fresh, free from any defect/damage (i.e. rust, crack, spot, pitted) and suitable for end products. In this regards certificate should be provided along with the offer & stores.
- b. Tender sample of (Minimum size 2200mmx900mm) should be submitted along with the offer for necessary chemical, mechanical and functional test.
- c. After signing of contract before bulk supply advance sample (Minimum size 2200mmx900mm) 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 Certificates, 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 stores.
- g. The year of manufacture of the store should be of contracted year. Certificate should be provided to this effect by the manufacturer along with the offer and stores.
- 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 stores.
- l. Quality control and Inspection Certificate should be provided by the manufacturer along with the stores.
- m. Warranty/Guarantee Certificate on proper machine ability and appropriate chemical composition & mechanical properties of the stores should be provided by the supplier along with the offer & stores.

2. **Warranty/Guarantee Certificate** : Warranty/Guarantee certificate from the manufacturer should be provided by the supplier to the effect that the stores supplied is brand new, complete of good materials and workmanship throughout and that in the event of any shortages, 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 IA&E and the period will be of 12 (twelve) months.

3. **Packing** :

- a. The GI sheet should be packed in roll will be wrapped with moisture/water proof paper on the top of the roll to protect water/moisture. After wrapping the roll should be covered with an extra GI sheet and re-enforced in three places with wrap (two in two end & one in middle). The inner & outer edges of the roll should be covered with angular sheet so that the edges of the rolled sheet should not affect for re-inforced. Then the roll to be fastened in lengthwise in four or more places as required to avoid the looseness of roll.
- b. The first sheet of each roll to be labeled with the following marking : Name of manufacturer, Brand No, Group No, Dimension, Weight of each bundle and signature of the technical control department.
- c. Galvanized roll cannot be transported in any dirty carriage which carries NaCl, Ca(OH)<sub>2</sub> and NH<sub>4</sub>Cl.
- d. Galvanized roll for delivery should be painted with neutralized mineral oil.
- e. A certification is to be provided along with delivery of each lot showing : Name of manufacturer, weight, group No, dimension, result of tests and code No. of this standard.

RESTRICTED

4. **Marking :**

a. **Following marking to be stenciled/labeled on the Galvanized Roll :**

- (1) Consignee : Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Bangladesh.
- (2) Contract number and date.
- (3) Name of the store.
- (4) Name of manufacturer.
- (5) Date of manufacture.
- (6) Brand number.
- (7) Group number.
- (8) Dimension.
- (9) Roll number.
- (10) Weight of each roll.

5. **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 member will be borne by Bangladesh Army. Supplier should inform about the date of Pre-Shipment Inspection (PSI) at least 12(Twelve) weeks to 15 (Fifteen) weeks (in respect of time required for obtaining visa of respective country) prior to the commencement of the said inspection. The Pre-shipment inspection criteria for the items concerned will be forwarded on receipt of inspection schedule from the supplier. After inspection a joint inspection report will be prepared and signed by both parties (Buyer's and seller's representatives). PSI report will be vetted by both the vetting committee of BOF and IA&E.

b. The Pre-shipment Inspection (PSI) will be carried out at manufacturer's factory/plant. Pre-shipment Inspection (PSI) should include visual inspection/checking of physical dimension, laboratory/chemical/Mechanical/functional test (if applicable). The team will visit the production line of same type of materials. All the equipment required for PSI team will be provided by the supplier.

c. All necessary facilities of consumable and non consumable items, tools, gauges, instruments, man power etc needed for inspection and any other item required for operational test/inspection during PSI are to be arranged by the supplier without any extra cost. Arrangement for disassembly, weighting, measuring and testing of components if required by the Pre-shipment inspection team to be done by the suppliers without any extra cost. All types of movement/transportation (air/sea/road/rail) of the team within the manufacturers/suppliers country reception and arrangement for entry in to the country/concerned area for the pre-shipment inspection also to be arranged by the suppliers without any extra cost.

d. If the pre shipment inspection is not carried out by BOF, then Quality Assurance Certificate (QAC) to be provided by the Quality Control Department of manufacturer for contracted item the same to be provided from suppliers principal/manufacturer in original in relevant official pad. 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 manufacturer/assembly
- (3) Certificate of year of production.
- (4) Certificate of warranty/guaranty which is specified as per contract.
- (5) Certificate of quality assurance and genuineness.
- (6) Functionality test certificate for fulfillment the technical specification as per contract.
- (7) Laboratory/Chemical test certificate fulfillment of the technical specification as per contract.
- (8) Environmental suitability certificate (suitability for tropical climate, humidity tolerance, operating temperature, storage temperature) for fulfillment the technical specification as per contract.
- (9) Packing list as per contract.
- (10) All other certificates as mentioned in the contract and any other as deemed necessary.

e. All documents/certificates will be in English original and duly signed and stamped.

f. If any deficiency/discrepancy found during any stage of Pre-Shipment Inspection, then deficiency/ discrepancy items to be rectified/filled up by the Manufacturer and also certificate to be obtained from manufacturer against said deficiency/discrepancy, and it will be forwarded to BOF. After fulfillment/cleared to deficiency/discrepancy by the manufacturer/supplier, then shipment clearance may be given by BOF. After necessary rectification Re- PSI may be held as per decision of purchaser. In that case supplier will bear all the cost of that Re-PSI including Daily Allowance (DA) of the PSI team members.

g. Interpreter detailed by supplier for the pre shipment inspection team should be competent enough to interpret the technical terms (as applicable)

h. Provide necessary secretarial support (typing and printing facilities) to the pre-shipment inspection (PSI) team.

RESTRICTED

j. PSI team will accept the stores provisionally, if the stores are found as per contractual requirement.

k. **Test Criteria**

- (1) Minimum 1% sealed box & 100% loose box or desired by PSI team to be checked visually.
- (2) The visual inspection include checking of physical dimension, laboratory/chemical/ Mechanical/functional test (if any). All technical parameters to be checked one by one as mentioned in the contracted specification.
- (3) laboratory/chemical test certificate to be provided to PSI team
- (4) Any other as deemed necessary by PSI team to check the performance as per contracted specification.

l. Following certificates to be provided by the manufacturer to PSI team :

- (1) Country of origin certificate.
- (2) Country of manufacturer certificate.
- (3) Year of production certificate.
- (4) Warranty/guaranty certificate, which is specified as per contract.
- (5) Shelf life certificate
- (6) Quality Control certificate by the manufacturer of quality control department
- (7) Laboratory/Chemical test certificate fulfillment of the technical specification as per contract.
- (8) Environmental suitability certificate (suitability for tropical climate).

6. **Post Shipment Inspection.** The stores on being received at the consignee's end will be inspected by a joint team of Inspectorate of Armaments & Explosive (IA&E) or authorized representative, consignee and supplier or his local representative.

- a. The post shipment inspection team will be carry out visual inspection of the 100% stores.
- b. Any Chipped off color, dented, cut mark, scratch, rust and fungal affect will not be accepted.
- c. Physical dimension, laboratory, chemical, mechanical and functional test will be carried out as deemed necessary.
- d. IA&E will issue final inspection report after receiving the stores at consignee's end provided the visual inspection, physical dimension, laboratory, chemical, mechanical and functional test reports are satisfactory.
- e. Any clarification/replacement of stores must be settled before issuing final inspection reports by IA&E.

7. **Part Shipment** : Part-Shipment is not allowed.

8. **Trans Shipment** : Trans-Shipment is not allowed.

9. **Authority Holding Sealed Particulars** : IA&E, Gazipur Cantt.

10. **Inspection Officer** : Chief Inspector, IA&E or his authorized representative.

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

12. **Country of Manufacturer:** Country of origin.

13. **Port of Shipment:** Country of origin.

14. **Country of Origin** : Group A countries.