Annex -`A` TO
Tender No. 23.27.0000.167.**63(i)**.4112316.20.21
DT. 11-11-2020

DETAILS OF THE MACHINE

Name of Machine	Specification	A/U	Qty
(a)	(b)	(c)	(d)
Gauging & Weighing Machine Type-56	Gauging & Weighing Machine Type-56 all standard and additional accessories as per specification below :	**Nos**	**03 (Three)**

1.	**Model**		To be mentioned
2.	**Name of the Machine (Designation):**		To be mentioned
3.	**Purpose:** The machine is designed for weighing, measuring dimensions and checking of full form of cartridges. Weighing and dimensions include Complete length high & low, Shoulder profile high & low, Total cartridge profile, Cartridge weight high & low. This machine will also have the capabilities for mouth varnishing, tip coloring, Visual inspection of appearance and any other gauging arrangement of a complete cartridge. Complete video clip of machine showing its working principle to be submitted with technical offer.		To be complied
4.	**Input Material:** 7.62×39 mm ball & tracer final Cartridge made of GMCS strip and Brass strip.		To be mentioned
5.	**Output:** Finally inspected Cartridge with mouth varnished and tip colored.		To be complied
6.	**Specification:**		
	a. Caliber (mm)		7.62×39 mm ball & tracer
	b. Production Rate (Pcs/min)		85 (Minimum)
	c. Number of Stations		To be mentioned
	d. Cartridge length Gauge (mm)	Ball/Tracer Type-56 55.5~55.9 mm	To be complied
	e Cartridge Profile): To comply with the profile Gauge on the working station as per BOF standard product		To be complied
	f Case body length : To comply with the profile Gauge on the working station as per BOF standard product.		To be complied
	g Cartridge weight (gm)	Ball/Tracer Type-56 16.0~16.85 gm	To be complied
	h. Stroke of the length gauging top punch (mm)		To be mentioned
	Stroke of the profile gauging (mm)		To be mentioned
	Stroke of the case body length gauging (mm)		To be mentioned
	i. Speed of weighing disc (r/min)		To be mentioned
	Dia of weighing disc (mm)		To be mentioned
	Weighing rod qty (Pcs)		To be mentioned
	j. Mouth varnishing speed (r/min)	85	To be complied
	Tip coloring (Drying method)	Spiral rod type natural drying	To be complied
	Tip coloring (Drying time)	70 sec	To be complied
	k. Visual inspection spiral rod pitch (mm)		To be mentioned
	Visual inspection spiral rod speed (r/min)		To be mentioned
	l. Hopper (Number and size in mm)		To be mentioned
	m. Electrical Supply		220/380/440V, 50 Hz
	n. Phase		To be mentioned
	o. Motor Horsepower (Hp)		To be mentioned
	p. Compressed Air Requirements (psi) (if any)		To be mentioned
	q. Control Cabinet (availability and size in mm)		To be mentioned
	r. Overall dimension (L×W×H) mm		To be mentioned
	s. Net Weight (Kg)		To be mentioned
	t. Automatic Voltage Regulator (AVR) if required to be provided with the machine synchronized with the rating of the supplied machine (from Group 'B' Country).		To be provided
	u. Date of manufacturing of the machine to be embossed on the main body		To be complied
7.	**Any Optional Equipment**		To be Mentioned
8.	**Latest Feature/ Technology**		To be mentioned
9.	**Spares, Accessories and Consumable Items:**		
	a. Required spares, accessories and consumables (Tools, Die, Punch, Gauges, etc.) Lubricating oil, Coolant, Filter, Battery, Online UPS, etc. as required to run initially (from trial running to the end of local training and 0.5 million production) the machine to be supplied by the manufacturer.		To be Provided

(a)	(b)		(c)	(d)
		b. Required Tools, Die, Punch, Gauges, etc. for 01 year period smooth operation (10 million production) will be supplied with the machine mentioning price, part No, brand, material & drawing.	To be Provided	
		c. Required spares, accessories and consumables (Mechanical/ Electrical & Electronic) for 01 year period smooth operation will be supplied with the machine mentioning price & part No., brand, material & drawing.	To be Provided	
		d. List of spares, accessories and consumables (including price, mentioning part No, brand, material & drawing.) recommended for 5 year period (Mechanical/ Electrical & Electronic) required for smooth operation of the machine after the expiry of warranty period (only for the reference of further procurement).	To be Provided	
		e. List of spares, accessories and consumables (including price, mentioning part No, brand, material & drawing.) recommended for life time period (Mechanical/ Electrical & Electronic) smooth operation of the machine after the expiry of warranty period (only for the reference of further procurement).	To be Provided	
	10.	**Country of Origin and Assemble: Group 'B' Countries**	To be mentioned	
	11.	**County of Manufacturer: Group B**	To be mentioned	
	12.	**Name of Manufacturer**	To be mentioned	
	13.	**Name of Principal**	To be mentioned	
	14	**Port of Shipment: Group 'B' / other Countries (As per country of origin)**	To be Complied	
	15.	**Country of Origin of all major components : Group 'B' Countries**	To be mentioned	
		a. Motor (Hopper & Main Motor)	To be Complied	
		b. Varnishing Unit	To be Complied	
		c. Weighing System	To be Complied	
		d. Length, Shoulder, Profile Checking System.	To be Complied	
		e. Rejection Segregate / (Visual Inspection)	To be Complied	
		f. Other important Mechanical & Electrical Part.	To be Complied	
		g. Die, punch and gauges including consumption rate	To be mentioned	
	16.	**Training and Pre-Shipment Inspection at Supplier's Site:**		
		a. **Pre-Shipment Inspection (PSI)** : (i) PSI will be carried out under BOF arrangement by two (02) persons for five (05) working days (excluding journey period). All cost of the PSI to be borne by BOF. (ii) Supplier must submit details plan of PSI (Modus Operandi). (iii) Supplier must also mention PSI cost to be borne by them at their end.	To be Complied	
	17.	**Post Installation Requirement at BOF:**		
		a. It is the responsibility of supplier to fully integrate, erect and commission the machine at our identified site/ room/ place.	To be Compiled	
		b. Performance and accuracies are to be demonstrated as per ISO Standards on supplied samples by us and on calibration standards supplied by the supplier.	To be Compiled	
		c. **Local Training:** Machine installation, trial run and operational with maintenance training is to be provided by the certified engineers of machine manufacturer at BOF site. Number of trainer must be at least 01 (one), duration of training should be 10 working days (excluding machine installation, trial run and trial production). **Following information must be given as under** :	To be Compiled	
		d. Supplier must submit Local training plan along with the offer.	To be Compiled	
		e. Supplier shall bring all necessary calibration standards and calibration equipment for proving the machine accuracies with valid traceability certificates at our site.	To be Compiled	
	18.	**Documentation:** The following documents (hard copy 2 sets & soft copy in CD/ Flash Drive/ HDD) shall be provided by supplier:		
		a. All the data and results of testing and calibration of the machine at supplier's site shall be properly documented and supplied to BOF. Calibration Certificates (traceable to National/International Standard) of all the artifacts/reference standards used for the same.	To be Provided	
		b. Operations, Calibration & Application software Manual: This document should explain all the measurement options, terms, operation, calibration, application of the system with sketches and detailed explanation.	To be Provided	
		c. System Administration & Maintenance/ Service Manual: This document should explain the detailed system configuration and administration including control system with the help of sketches. System manual should explain known possible errors and solution for the same. User manual and service manual (for both Mechanical, Electrical and Electronic Hardware/ Circuits) in English language to be supplied with the machine.	To be Provided	

Ser	Training	Details	Supplier's Opinion
a.	Local Training	Trainer Type (Local/ Foreign)	
		Number of Trainer	
		Training Schedule	

(a)	(b)		(c)	(d)
	19.	**After Sales Support:**		
		a. Supplier should guarantee the availability of spares, software/ firmware updates and additional add-on modules for at-least 10 (ten) years from date of expiry of warranty.	To be Complied		
		b. Customer support facility shall be made available for at least 10 (ten) years after expiry of the guarantee period.	To be Complied		
		c. Online remote diagnostic till the machine life/ online help for maintenance application as required to be provided.	To be Complied		
		d. Online help support for system Queries/ Application support as required to be provided.	To be Complied		
		e. Service facilities and personnel availability as required to be provided.	To be Complied		
		f. Service personnel to attend any fault as soon as possible after receipt of the information, whenever called for (within maximum one month time from the date of intimation)	To be Complied		
	20.	**Warranty:**		
		a. The machine shall have warranty for a minimum period of 12 months or more after commissioning for defect free operation and specified accuracies at our site.	To be Complied		
		b. Any defect observed during the warranty period shall be replaced/repaired free of cost with minimum down time (one month). All the software updates during the warranty period shall be supplied, installed and trained to our personnel on real time basis at free of cost.	To be Complied		

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 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 any other authority of their country. They must also submit a certificate in this regards as per the attached specimen format at Annex F.

4. Before signing the contract, 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 D).

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 E.

6. The stores should be supplied to BOF at **supplier's cost.**

7. On arrival of the stores at BOF, the supplier must complete installation, commissioning, trial run & trial production within 01(one) month (from the date of entry at BOF). Otherwise, penalty will be imposed at the rate of 2% but not less than 1% and will not exceed 10% of the total CFR/LC vale (As applicable).

8. 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.

9. 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.

10. The Supplier must submit the following **attested documents** with the schedule :

a. Trade License b. Tin Certificate c. Up to date VAT Registration certificate.