

DETAILS OF THE MACHINE

Name of Machine	Specification	A/U	Qty
(a)	(b)	(c)	(d)
Loading and Assembling Machine	Loading and Assembling Machine with all standard and additional accessories as per specification below :	No	02 (Two)
	1. Model	To be mentioned	
	2. Name of the Machine (Designation):	To be mentioned	
	3. Purpose: This machine is used for propellant charging/loading into finished cartridge cases and further assembling it with final finished bullet. Complete video clip of machine showing its working principle to be submitted with technical offer.	To be complied	
	4. Input Material: Primer inserted cartridge case with inner mouth varnished, Propellant and final finished bullet.(As per drawing or sample)	To be complied	
	5. Output: Complete Cartridge (As per drawing or sample)	To be complied	
	6. Specification:		
	a. Caliber (mm)	Ball Type-56 (7.62×39 mm)	
	b. Production Rate (Pcs/min)	85 (Minimum)	
	c. Powder quantity tolerance (gm)	+ 0.02	
	d. Number of Stations	To be mentioned	
	e. Electrical Supply	220/380/440 V, 50 Hz	
	f. Phase	To be mentioned	
	g. Motor Horsepower (Hp)	To be mentioned	
h. Compressed air requirements (psi)	To be mentioned		
i. Control Cabinet (Availability and size in mm)	To be mentioned		
j. Overall dimension (L×W×H) mm	To be mentioned		
k. Net Weight (Kg)	To be mentioned		
l. 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 mentioned		
m. Year of Manufacture to be embossed in 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 (if required) etc. as required to run initially (from trial running to the end of local training and 0.5 million production for each machine to be supplied by the manufacturer with the machine.	To be Provided		
b. Required Tools, Die, Punch, Gauges etc. for 01 year period smooth operation (6.5 million production for each machine) will be supplied with the machine mentioning price, part No, brand, material & drawing (only for the reference of further procurement).	To be Provided		
c. Required spares, accessories and consumables (Mechanical/ Electrical & Electronic) for 01 year period smooth operation will be supplied with each machine mentioning price & part No., brand, material & drawing (only for the reference of further procurement).	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 each 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 and Address	To be mentioned		
13. Name of Principal and Address	To be mentioned		
14. Port of Shipment : Group B (As per country of origin)	To be mentioned		

(a)	(b)	(c)	(d)																
15.	Country of Origin of all major components : Group B Countries a. Motor (Hopper & Main Motor) b. Tooling Unit c. Control System d. Other Mechanical & Electrical Parts	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. (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. b. Machine operation & maintenance training to be conducted for three (03) BOF persons at machine manufacturer site for 05 working days and cost will be borne by supplier. Air ticket, pocket money, food, accommodation and medical costs (if needed) will be borne by BOF. Supplier must submit foreign training plan along with the offer.	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. 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. c. Extensive training (minimum 10 working days) of BOF personals by the Supplier's Technical team at our site after installation and commissioning of the machine. The training should cover complete operation, application software usage in all aspects of measurement and data analysis, part programming, calibration, basic & preventive maintenance and trouble shooting. Following information must be given as under : <table border="1" data-bbox="368 981 1171 1126"> <thead> <tr> <th>Ser</th> <th>Training</th> <th>Details</th> <th>Supplier's Opinion</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Local Training</td> <td>Trainer Type (Local/ Foreign)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Number of Trainer</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Training Schedule</td> <td></td> </tr> </tbody> </table> d. Supplier must submit Local training plan along with the offer. e. Supplier shall bring all necessary calibration standards, calibration equipment for proving the machine accuracies with valid traceability certificates at our site.	Ser	Training	Details	Supplier's Opinion	a.	Local Training	Trainer Type (Local/ Foreign)				Number of Trainer				Training Schedule		To be Complied	
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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. 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. c. System Administration & Maintenance/ Service Manual : This document should explain the detailed system configuration and administration including controller, probe head 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 Provided																	
19.	After Sales Support: a. Supplier should guarantee the availability of spares, software/ firmware updates and additional add-on modules for at-least 10 years from date of expiry of warranty. b. Customer support facility shall be made available for at least 10 (ten) years after expiry of the guarantee period. c. Online remote diagnostic (if any) till the machine life for maintenance to be provided. d. Online help support for system Queries/ Application support to be provided. e. Service facilities and personnel availability to be provided. 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																	

(a)	(b)		(c)	(d)
	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. b. Any defect observed during the warranty period shall be replaced/repaired free of cost with minimum down time. 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/manufacture can submit **only one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacture 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/manufacture 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. 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. 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.**