

**SPECIFICATION**

Nomenclature				A/U	Qty
Bullet Weighing and Gauging Machine with all standard and additional accessories as per specification below:				No	02
Ser	Description				
1.	<b>Name of the Machine: Bullet Weighing and Gauging Machine</b> with all standard and additional accessories				
2.	<b>Model:</b> To be mentioned				
3.	<b>Country of Origin and Assemble:</b> Group- B				
4.	<b>County of Manufacturer:</b> Group- B				
5.	<b>Name of Manufacturer:</b> CCEA / Zhejiang Red Flag Machinery Co., Ltd, China/ Equivalent reputed machine manufacturer.				
6.	<b>Name of the Principal:</b> To be mentioned				
7.	<b>Purpose:</b> This machine is used to weight and gauging the length of the 7.62x39 mm bullet. <b>(As per BOF sample &amp; drawing). Complete video clip showing its working principal to be submitted with the technical offer.</b>				
8.	<b>Input Material:</b> Ball Bullet T-56 without Weighing, Length and Diameter. (As per BOF sample & drawing)				
9.	<b>Output Material:</b> Ball Bullet T-56 with Gauging Below: (As per BOF sample & drawing) Weighing Capacity: 7.65 ~ 8.15 mm Length: 26.18 ~ 26.90 mm Diameter: 7.87 ~ 7.91 mm Middle Diameter: 7.82 ~ 7.87mm				
10.	<b>Specification:</b>				
	<b>Ser</b>	<b>Items</b>	<b>Unit</b>	<b>Data or Note</b>	
	(1)	Type of machine	-	Rotary balance and lever gauge type machine	
	(2)	Weighing & Gauging items	-	a. Weight b. Length c. Middle Diameter d. Diameter	
	(3)	Diameter of weighing rotary disk	mm	Ø 456	
	(4)	Speed of weighing rotary disk	r/min	4.5	
	(5)	Number of weighing levers	pcs	16	
	(6)	Weighing accuracy	g	± 0.05	
	(7)	Travel of gauging stem	mm	60	
	(8)	Diameter of gauging carry disk	mm	Ø 138	
	(9)	Number of working position of gauging	-	6	
	(10)	Efficiency of production	pcs. p.m	72	
	(11)	Hopper type	-	Disk	
	(12)	Diameter of rotary hopper disk	mm	Ø 338	
	(13)	Main Electromotor	Type	-	To be mentioned
		Power	kw		To be mentioned
		Revolution	r/min		To be mentioned
	(14)	Electromotor of funnel	Type	-	To be mentioned
		Power	kw		To be mentioned
		Revolution	r/min		Adjustable
	(15)	Dimension of machine (LxWxH)	mm	To be mentioned	
	(16)	Weight of machine	kg	To be mentioned	
	(17)	Year of manufacturing of the machine to be embossed on the main body		To be mentioned (Not before the year of contract)	
11.	Optional equipment (if any) required to complete the process: To be mentioned in detail				
12.	<b>Latest Feature/ Technology</b> (If available): To be mentioned				
13.	<b>Main Machine:</b>				
13.1	Basic machine with all standard accessories and attachment are to be provided.				
13.2	List of Tools, Die, and Punch that is fitted with the machine to be provides.				
13.3	Automatic Voltage Regulator (AVR) if required to be provided with the machine and				

	synchronized with the supplied machine.																																	
14.	<b>Spares, Accessories and Consumable Items:</b>																																	
14.1	Required spares, accessories and consumables (Tools, Die, Punch, Gauges, etc.) Lubricating oil, Coolant, Filter, Battery, Online UPS, etc. for <b>5.00 million productions</b> will be supplied with the machine mentioning price, part No, brand, material & drawing.																																	
14.2	2 set gauges will be provided with the machine mentioning price, part No, brand, material & drawing.																																	
15.	<b>Port of Shipment:</b> Group-B (As per country of origin)																																	
16.	<b>Country of Origin of all major components:</b> Group-B																																	
	a. Main Motor																																	
	b. Major Mechanical & Electrical Part.																																	
	c. Any other major component																																	
17.	<b>Installation &amp; Post Installation Requirement at BOF:</b>																																	
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	(1) <b>Installation Requirement at BOF:</b>																																	
	a. It is the responsibility of supplier to fully integrate and commission the machine at BOF's identified site/ room. Machine installation and commissioning is to be provided by the technical expert of machine manufacturer from same country or at least same group of countries at BOF site.																																	
	b. BOF shall only provide utility service up to near proximity. All other related equipment, connections and fittings or any related things required for successful installation and running of the machine will be provided by the supplier.																																	
	c. Supplier shall bring all necessary calibration standards and calibration equipment for ensuring the machines accuracy with valid traceability certificates at BOF site.																																	
	d. Amount of installation, commissioning, trial run, trial production & training must be mentioned separately by the manufacturer. After installation and commissioning of the machine, trial run, trial production followed by operational and maintenance training of BOF personals by the technical expert of machine manufacturer from same country or at least from same group of countries at BOF site to be provided. The training should cover complete operation, application, software usage (if required) in all aspects of measurement and data analysis, part programming for required samples, calibration, basic & preventive maintenance and troubleshooting etc. Supplier must submit day wise local training plan along with the offer. Following information must be given as below:																																	
	<table border="1"> <thead> <tr> <th>Ser</th> <th>Items</th> <th>Responsible (Supplier/BOF)</th> <th>Cost</th> <th>Duration</th> </tr> <tr> <th>(a)</th> <th>(b)</th> <th>(c)</th> <th>(d)</th> <th>(e)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Site Preparation</td> <td>BOF and Supplier</td> <td rowspan="5">To be mentioned</td> <td rowspan="5">To be mentioned</td> </tr> <tr> <td>2.</td> <td>Installation &amp; Commissioning</td> <td>Supplier</td> </tr> <tr> <td>3.</td> <td>Trial Run</td> <td>Supplier</td> </tr> <tr> <td>4.</td> <td>Trial Production</td> <td>Supplier</td> </tr> <tr> <td>5.</td> <td rowspan="2">Training</td> <td>Functional Training</td> <td>To be mentioned</td> </tr> <tr> <td></td> <td>Repair &amp; Maintenance Training</td> <td>To be mentioned</td> </tr> </tbody> </table>	Ser	Items	Responsible (Supplier/BOF)	Cost	Duration	(a)	(b)	(c)	(d)	(e)	1.	Site Preparation	BOF and Supplier	To be mentioned	To be mentioned	2.	Installation & Commissioning	Supplier	3.	Trial Run	Supplier	4.	Trial Production	Supplier	5.	Training	Functional Training	To be mentioned		Repair & Maintenance Training	To be mentioned		
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	(2) <b>Post Installation Requirement at BOF.</b>																																	
	a. Machine installation and commissioning is to be provided by the Supplier at BOF site ( <b>within 30 days</b> ) after receiving machine by BOF.																																	
	b. After installation and commissioning of the machine trial production and trial run ( <b>minimum 10 working days</b> excluding installation and commissioning period) by the Supplier's Technical team at BOF site to be provided.																																	
	(3) <b>Software and License:</b> If any software update, license key is required for the machine, supplier must provide this for machine's lifetime free of cost. Remote or system locking of the machine using software and password is not allowed. If done so, BOF will have the authority to reject the machine. A PLC backup along with operating software must be supplied with machine. PLC must be keyword/password free.																																	
18.	<b>After Sales Support:</b>																																	
18.1	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.																																	
18.2	Customer support facility shall be made available for at least 5 (Five) years after expiry of the guarantee period.																																	
18.3	Online remote diagnostic till the machine life/ online help for maintenance application to be provided (if available).																																	

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18.4	Online help support for system Queries/ Application support.
18.5	Service facilities and personnel availability.
18.6	Service personnel to attend any fault within 3 (Three) days after receipt of the information, whenever called for.
19.	<b>Warranty:</b>
19.1	The machine shall have warranty for a minimum period of 12 (Twelve) months or more after commissioning for defect free operation at specified accuracies in our site.
19.2	Any defect observed during the warranty period shall be replaced/repared 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.
20.	<b>Condition:</b>
20.1	<b>Adaptation Physical Visit:</b> Within 30 days from signing of contract a tech team of OEM to visit BOF to confirm the tech spec of the machines and its associated jigs, fixtures, die and punch required for designated production. An agreement by the visiting team has to be signed with BOF confirming technical spec given in clause 7,8,9,10,11,12,13 and 14. No alteration or change of any contract clause including financial terms is permissible.
20.2	<b>Turn Key Project:</b> The contract will be considered as a Turn Key Project. The OEM has to ensure installation, trial run, trial production, training and sustainable production.
20.3	QAC must be provided for the acceptance of the machines. The QAC must be provided by a third party which will be decided by BOF. Following certificates to be provided along with QAC by the third party. (1) Country of origin certificate. (2) Safe transportation certificate. (3) Year of manufacturer certificate. (4) Warranty certificate. (5) Guarantee certificate. (6) Any other certificate (if necessary).
20.4	<b>50% of the payment will be made after shipment clearance of the machine via QAC &amp; another 50% will be paid after as follows (20% will be paid after complete installation, 10% after complete training and 20% after trail run production).</b>
20.5	The machine must be brand new, free from any defect or damage.
20.6	02xMachine drawings and designs must be supplied during the Adaptation Physical Visit.
20.7	02 x Operators manual/ programming manual in English language must be supplied with the machine.
20.8	02 x Maintenance/ repair manual in English must be supplied with machine.
20.9	The manufacturer must provide verified complete drawing (02 x hard copies and soft copies in dwg/step/stl file) of tools, dies, punches, gauges and special parts of the machine.
20.10	Supplier should submit original leaflet/ Brochure with the offer.
20.11	<b>Lowest bidder will be selected basing on price against clause 13 &amp; 14.</b>

**Terms and Conditions**

**Supplier must mention their compliance on the following mentioned points:**

1. **The quoted price must be excluding CD and VAT.**
2. 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**.
3. 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.
4. 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**.
5. Before signing the contract, Performance Guarantee (PG) @ 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**).
6. 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.
7. The stores should be supplied to BOF at supplier's cost.
8. If the supplier fails to deliver the stores as per the specification and terms of the contract within the stipulated period, the followings will be applicable:
  - a. Cancellation of the contract and/or,
  - b. Decision at the discretion of BOF.
9. BOF is the authority in all matters pertaining to Inspection. Any verdict by the inspection team 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.