

**SPECIFICATION**

Serial	Nomenclature	A/U	Qty
a.	<p>Magazine Assembly, 07 (Finished)            Assembly of 11 independent Components and two sub assembly            As per drawing &amp; sample.            List of Components:            1. Magazine Body Sub Assembly (07-01)              a. Right Wall, Magazine (07-4)                Description of material :                Cold Rolled Steel Plate                Size: 0.7×1000×2000-B                Finished Condition: Regularly Drawn, Advanced Finished Surface and                Annealing                <u>Chemical Composition</u>                C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,                P = 0.04% (Max), S = 0.04% (Max), Cr = 0.05%~0.25%,                Ni = 0.05%~0.25%                <u>Mechanical Properties</u>                Tensile Strength <math>\sigma_b</math> : 355~500 (30~51) N/mm<sup>2</sup>(Kgf/mm<sup>2</sup>),                Extensibility <math>\sigma_{10}</math> (Not less than): 24%              b. Left Wall, Magazine (07-5)                Description of material :                Cold Rolled Steel Plate                Size: 0.7×1000×2000-B                Finished Condition: Regularly Drawn, Advanced Finished Surface and                Annealing                <u>Chemical Composition</u>                C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,                P = 0.04% (Max), S = 0.04% (Max), Cr = 0.05%~0.25%,                Ni = 0.05%~0.25%                <u>Mechanical Properties</u>                Tensile Strength <math>\sigma_b</math> : 355~500 (30~51) N/mm<sup>2</sup>(Kgf/mm<sup>2</sup>),                Extensibility <math>\sigma_{10}</math> (Not less than): 24%              c. Right Mouth Plate Magazine (07-6)                Description of material :                Cold Rolled Steel Strip                Size: 1.5×90 mm                Finished Condition: Age trimmed and Annealing.                <u>Chemical Composition</u>                C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,                P = 0.040% (Max), S = 0.040% (Max), Cr = 0.05%~0.25%,                Ni = 0.05%~0.25%</p>	Set	25,000

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	<p><u>Mechanical Properties</u>  <u>Annealed Steel Strips</u>  Tensile Strength: 32~55 Kgf/mm<sup>2</sup> (Max),  Extensibility (Not less than): 20%</p> <p><u>Chilled Steel Strips:</u>  Tensile Strength: 50~85 Kgf/mm<sup>2</sup>  d. Left Mouth Plate Magazine (07-7)  Description of material :  Cold Rolled Steel Strip  Size: 1.5x90 mm  Finished Condition: Age trimmed and Annealing.</p> <p><u>Chemical Composition</u>  C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,  P = 0.040% (Max), S = 0.040% (Max), Cr = 0.05%~0.25%,  Ni = 0.05%~0.25%</p> <p><u>Mechanical Properties</u>  <u>Annealed Steel Strips</u>  Tensile Strength: 32~55 Kgf/mm<sup>2</sup> (Max),  Extensibility (Not less than): 20%</p> <p><u>Chilled Steel Strips:</u>  Tensile Strength: 50~85 Kgf/mm<sup>2</sup>  e. Rear Mouth Plate, Magazine (07-8A)  Description of material :  High Quality Hot Rolled Flat Steel  Size: 10x16x4000 mm  Finished Condition: Hot Rolling.</p> <p><u>Chemical Composition</u>  C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,  P = 0.040% (Max), S = 0.040% (Max), Cr = 0.05%~0.25%,  Ni = 0.05%~0.25%</p> <p><u>Mechanical Properties</u>  Tensile Strength : 42 Kgf/mm<sup>2</sup> (Min),  Yeild Point: 25 Kg/mm<sup>2</sup> (Min)  Elongation : 25% (Min),  Reduction in area : 55% (Min)  f. Front Mouth Plate, Magazine (07-9)  Description of material : Cold Rolled Steel Strip  Size: 1.5x55 mm, Finished Condition: Age trimmed and Annealing</p> <p><u>Chemical Composition</u>  C = 0.32~0.40, Mn = 0.50%~0.80%, Si = 0.17%~0.37%,  P = 0.040% (Max), S = 0.040% (Max), Cr = 0.05%~0.25%,  Ni = 0.05%~0.25%</p> <p><u>Mechanical Properties</u>  <u>Annealed Steel Strips</u>  Tensile Strength: 40~65 Kgf/mm<sup>2</sup> (Max),  Extensibility (Not less than): 16%,</p>		

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	<p><u>Chilled Steel Strips:</u> Tensile Strength: 65~95 Kgf/mm<sup>2</sup></p> <p>2. Follower Sub Assembly (07-02)</p> <p>a. Follower Body (07-10)</p> <p>Description of material : Cold Rolled Steel Plate Size :0.7×1000×2000-B Finished Condition: Regularly Drawn, Advanced Finished Surface and Annealing</p> <p><u>Chemical Composition</u> C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%, P = 0.04% (Max), S = 0.04% (Max), Cr = 0.05%~0.25%, Ni = 0.05%~0.25%</p> <p><u>Mechanical Properties</u> Tensile Strength <math>\sigma_b</math> : 355~500 (30~51) N/mm<sup>2</sup>(Kgf/mm<sup>2</sup>), Extensibility <math>\sigma_{10}</math> (Not less than): 24%</p> <p>b. Follower Liner (07-11)</p> <p>Description of material : Cold Rolled Steel Strip Size: 0.7×110 mm, Finished Condition: Age trimmed and Annealing.</p> <p><u>Chemical Composition</u> C = 0.32%~0.40%, Mn = 0.50%~0.80%, Si = 0.17%~0.37%, P = 0.040% (Max), S = 0.040% (Max), Cr = 0.05%~0.25%, Ni = 0.05%~0.25%</p> <p><u>Mechanical Properties</u></p> <p><u>Annealed Steel Strips</u> Tensile Strength: 40~65 Kgf/mm<sup>2</sup> (Max) Extensibility (Not less than): 16%</p> <p><u>Chilled Steel Strips:</u> Tensile Strength: 65~95 Kgf/mm<sup>2</sup></p> <p><u>Heat Treatment Process for Component</u> Hardening/Quenching Temp=860~890°C, Time: 18~22 Minute, Coolant: Oil, Tempering Temp=360~420°C, Time: 30 Minute, Coolant: Water, Hardness: HRC/HB: 34~42</p> <p>3. Magazine spring (07-1)</p> <p>Description of material : High Quality Cold Drawn Steel Wire Size: Dia 1.5 mm Finished Condition: Cold Drawing.</p> <p><u>Chemical Composition</u> C = 0.85~0.94%, Mn = 0.15~0.30%, Si = 0.15~0.30%, P = 0.030% (Max), S = 0.020% (Max)</p> <p><u>Mechanical Properties</u> Tensile Strength: 220-250 Kg/mm<sup>2</sup>, Torsion Time: 16 (Min), Repeated Bending Time: 16 (Min)</p> <p><u>Magazine Spring:</u> Coil No. of Magazine Spring : a. Number of Active Coils : 23 b. Number of Total Coils : 24</p>		

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	<p>4. Catch Magazine Cover (07-2)            Description of material :            Cold Rolled Steel Plate            Size:0.7×1000×2000-B            Finished Condition: Regularly Drawn, Advanced Finished Surface and Annealing.  <u>Chemical Composition</u>            C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,            P = 0.04% (Max), S = 0.04% (Max) Cr = 0.05%~0.25%,            Ni = 0.05%~0.25%  <u>Mechanical Properties</u>            Tensile Strength <math>\sigma_b</math> : 355~500 (30~51) N/mm<sup>2</sup>(Kgf/mm<sup>2</sup>),            Extensibility <math>\sigma_{10}</math> (Not less than): 24%</p> <p>5. Magazine cover (07-3)            Description of material :            Cold Rolled Steel Plate            Size:0.7×1000×2000-B            Finished Condition: Regularly Drawn, Advanced Finished Surface and Annealing.  <u>Chemical Composition</u>            C = 0.17%~0.24%, Mn = 0.35%~0.65%, Si = 0.17%~0.37%,            P = 0.04% (Max), S = 0.04% (Max), Cr = 0.05%~0.25%,            Ni = 0.05%~0.25%  <u>Mechanical Properties</u>            Tensile Strength <math>\sigma_b</math> : 355~500 (30~51) N/mm<sup>2</sup>(Kgf/mm<sup>2</sup>),            Extensibility <math>\sigma_{10}</math> (Not less than): 24%</p> <p><u>Test of Magazine</u></p> <p>a. Fatigue test for Magazine Spring:            (i) Take out 0.5% for each batch to undergo fatigue test under the condition of 700/min frequency 199.3~ 49.7 height and 30 min.            (ii) If the broken spring has been detected during the vibrating porcine within 30 min. take more spring to go on with the test ever one piece has been broken. If the continuing test still cannot meet the above mentioned requirements, the spring of whole batch shall be claimed to be useless.</p> <p>b. Loading and unloading test to be carried out by the machine.</p> <p>c. Fire test to be carried out in proof range.</p>		
b.	<p><u>Country of Origin</u> : Group B.</p>		
c.	<p><u>In case Country of Origin – China</u> :  <u>Condition.</u></p> <p>i. Foreign Principle must be Military Trade Enterprise Authorized by the govt. of the People Republic of China.            ii. The quality of Mat/ Components/Ports must be Military Grade from enlisted factory.</p>		

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d.	Name of Principal : To be mentioned.		
e.	Name of Manufacturer : To be mentioned.		
f.	Country of Manufacturer : To be mentioned.		
g.	Port of Shipment : To be mentioned.		
h.	Offer Validity : 180 days from tender opening date.		
j.	<b><u>Pre-Shipment Inspection</u></b> :		
	(1) 3 (Three) members {2 (Two) members from BOF and 1 (One) member from IA&E} for a period of 5 (Five) workings days (Excluding journey period).		
	(2) Supplier must submit detail plan of PSI (Modus Operandi).		
	(3) If PSI is not carried out by the buyer due to any Force Majeure, then the Quality Assurance Certificate (QAC) original hard copy signed by the appropriate authority of the Quality Control Department of the manufacturer as per Annex M will have to be submitted at BOF end for obtaining Shipment Clearance. In this case, 60% LC value will be paid after shipment and remaining 40% LC value will be paid after final acceptance of the item by BOF inspecting authority.		

**Terms and Conditions.** Suppliers 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 principal/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 scheduled Bank of Bangladesh.
3. Supplier must **clearly mention** (in the technical offer) that as principal/manufacturer they possess necessary **export permit** from the concern ministry **or chamber of commerce** of their country. They must also submit a certificate in this regard as per the attached specimen format at Annex L.
4. Before signing the contract, foreign currency Performance Guarantee @ 10% of total LC value is to be submitted by the Principal in favour of Commandant, Bangladesh Ordnance Factories (BOF), Gazipur Cantonment, Gazipur through any scheduled Bank located in Bangladesh (As per the format at Annex G).
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 H, **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. If the supplier fails to deliver the stores as per the specification and the 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.
8. 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.
9. The Supplier must submit the following **attested documents** with the schedule:
  - a. **Trade License.**
  - b. **TIN Certificate.**
  - c. **Up to date VAT Registration certificate.**