

Scope of supply and specifications of Single Phase, barrel Cleaning Machine for 155 mm. Gun. System

extension rod which in-turn will be connected to piston rod proximity switches. The power pack is to be driven by single phase AC motor. Cleaning linear actuator, electric the power pack is to be perfectly sealed for dust and dirt. Scope of supply covers design, Manufacturing and supply of barrel tor cleaning the barrels of the prime mover, necessary completing items and accessories & mountings . Intended gun by reciprocating of the motion generated by hydraulic linear actuator and controlled by cleaning Machine (Hydraulic) consisting of power pack, hydraulic machine. As the machine has brush will be attached at the end of the to work in sandy atmosphere use of the machine

WORKING CONDITIONS AND FEATURES / SPECIFICATIONS

- Range of working temperature from -20°C to + 45°C (sandy atmosphere)
- 2. Height of the barrel center line from the ground level =1600mm (Reference for m/c height)
- Height of the machine should be adjustable to 100mm up or down from its mean height of 1550 mm.
- Stroke length; 1250mm (±10mm)
- Minimum number of stroke per minute :12 (to and fro)
- Cleaning force to be generated in forward and backward motion: > 120 kgf.
- 6A. During To & Fro motion of piston rod, ensure that piston moves along predetermined path and don't buckle.
- The power pack should be designed to work with hydraulic oil of 46 CSt viscosity.
- 8. Temperature of hydraulic oil must not exceed +70°C in all working conditions.
- 8A. Provision for oil cooler to maintain hydraulic oil temperature.
- 8B. Return line oil filter of size 10 µm
- Hydraulic Power Pack is to be driven by two single phase induction motor of 3 hp. of reputed make/ISImark.
- 10. All the hydraulic and electrical items used in the machine must be of reputed make confirming the relevant standards as applicable.
- Maximum capacity of hydraulic oil tank = 150 lt.
- Power pack must contain oil level indicator, pressure regulator with gauge, intake and return line filters along, with other necessary components.
- 13. Material of stand and trolley: structural steel.
- 14. Material of Hydraulic oil tank: SS 304
- 15. The machine is to be clamped with the barrel to arrest relative movement between machine and barrel while cleaning operation is ON. The firm has to supply the attachment for the same.
- 15A. Machine should design to provide a stable platform
- 15B. Minimum Four lifting points are required in the machine for lifting and loading with a crane to enable long distance portability.
- 16. Scope of supply also includes 6.7 nos of extension rods made of mild steel each 1.2m long, along with cover, with suitable end fitting to fit with each other and with the Pull through cleaning brush (drg. No.: 5182114). There should to be provision to detach the power pack from stand.

Specifications of Single Phase, Barrel Cleaning Machine for 155mm Gun System

- 17. For good maneuverability, Power pack and cleaning machine is to be mounted on single trolley with four high quality roller wheel of minimum 6" size and a robust designed handle to pull or push the machine.
- Machine must contain all necessary electrical items for safe operation.
 Machine to be supplied in plug and use condition.
- Firm has to supply necessary spares for smooth running of the machine for two years from the date of commissioning.
- 20. Firm has to submit 3 sets of maintenance manual having detailed description of the machine and specifications & source of supply for all the standard items used in the machine.
- 20A. Firm has to provide (i) user manual for the CES items, (ii) weight of apparatus dry,oil filled &oil filled with cleaning rod, (iii) specification of Oil filter, periodicity of oil change & (iv) maintenance schedule.
- 21. Packed 200 ltr. hydraulic oil should be separately supplied
- Temperature controlled with Thermo-Couple & displayed on PID meter.

for better understanding of the requirement, firm's technical representatives may visit GCF, Jabalpur before submitted their offer.

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