

**SUGGESTIONS FOR WRITING BID SPECIFICATIONS ON THE
Clarke CA30™ 20B
BATTERY POWERED AUTOMATIC SCRUBBER**

GENERAL	The machine shall be capable of scrubbing a swath 20 inches (50.8 cm) wide by means of a single rotating power driven brush, and have a vacuum fan for picking up the dirty water from the swath by means of a squeegee. The machine shall be battery powered, with motors to drive scrub brush agitation, and vacuuming dirty cleaning solution from the floor. Tanks for storing scrubbing solution and recovered dirty water shall be carried on the machine.
BATTERIES	The machine shall carry two, 12 V storage batteries, connected in series circuit providing a 24 V system. Batteries shall be 105 amp hour AGM sealed batteries. The batteries shall be carried in a compartment integral with the solution tank which will contain any spillage, and be positioned to provide a low center of gravity for stability and safety.
BATTERY CHARGER	The machine shall be equipped with an onboard battery charger integral to the machine.
SCRUB BRUSH POWER	The machine shall be equipped with a ¾ hp (0.56 kW), permanent magnet, DC motor to drive the brush. This machine shall also be capable of lowering the brush to the floor and be capable of applying 77 lb (35 kg) of brush pressure to the floor.
BRUSH ASSIST FORWARD DRIVE	The machine shall be capable of traversing forward by means of brush assist with minimal effort from the operator to assist the forward motion.
WHEELS	The machine shall be equipped with two main load carrying wheels, each being 8 inches (20 cm) in diameter. The machine shall be equipped with one caster 3 inches (76 mm) in diameter.
TANKS	The machine shall be equipped with a 10.5 gallon (40 L) solution tank and a 10.5 gallon (40 L) recovery tank. The recovery tank shall be equipped with a drain hose. The recovery tank shall have a large cover that permits easy rinsing for convenient maintenance. The solution tank shall have a clear level indicator hose.
VACUUM FAN	The machine shall be equipped with a vacuum fan. The vacuum fan shall be driven by 24 V, and be ¾ hp continuous duty.
SQUEEGEE	The squeegee shall be double bladed and be a 31.1 inch (79 cm) wide parabolic unit. The squeegee shall be swing mounted so it follows the scrubbing path to pick up water on the inside areas of turns. The squeegee shall be attached to the machine in a break-away design so that upon accidental impact it will disengage from its mounting manifold without damage to the squeegee or the machine. The squeegee shall be easily removed for servicing with two knobs. The squeegee shall be raised and lowered by means of a hand lever.

- CONTROLS** All operator controls will be located on the operator control panel at the rear of the machine on the handle. The control panel shall be in full view of the operator and shall provide easily read and understood graphics with international symbols. Control switch and indicator functions will be on an easy to clean tactile touch control panel.
- ACCESSORIES** The machine shall be capable of operating with polypropylene brush which is provided standard with the machine. An optional pad holder shall be available.
- WEIGHT** The weight shall not exceed 282 lb (128 kg) with batteries.
- DIMENSIONS** The machine shall be 43.3 inches (110 cm) long, 21.3 inches (54 cm) wide (excluding squeegee), and 38.5 inches (98 cm) high. The weight shall not exceed 282 lb (128 kg) with batteries.
- WARRANTY** The machine shall be warranted by the manufacturer, except for normal wear parts such as carbon motor brushes, floor brushes or pads, and squeegee blades for a period of three years on parts, and a period of two years on labor from the date of purchase.

THE MACHINE SHALL BE A *Clarke CA30™ 20B*