## 1. Technical specifications for the Tools, Equipment and Vehicles

The Refuse Compactor Vehicle shall be easy to handle and allow the handlers to unload Solid Waste into the Machine Tailgate hopper with minimum physical effort and maximum safety. Hand lever arrangement for operation of Compaction Cycle shall be provided. Refuse Compactor Vehicle should be having container lifting arms for handling garbage from 3CUM containers.

**REFUSE COLLECTION BODY**

The refuse compactor shall be of 14M$^3$ Capacity and be in torsion-free steel construction. The bottom, the side walls and the top must form a box-type design. The side walls as well as the top shall be in reinforced frame steel construction.

**2.** Roof panel thickness – Minimum 2 mm

**3.** Side Panel thickness – Minimum 3 mm

**4.** Floor thickness – Minimum 4 mm

**5.** The tailgate bearing and automatic tailgate locking shall be integrated into the rear frame of the body.

**6.** The Ejection Plate shall run on synthetic guide blocks within the lateral longitudinal guides of the boat-type bottom group of the refuse collection body and must be operated by a telescopic hydraulic ram. A hydraulic control unit will regulate the withdrawal of the ejection panel during the loading process, so that the compaction is optimized.

**7.** It must serve during loading as a resistance for the refuse compaction process.

**8.** Tailgate

**9.** The tailgate shall unlock automatically and raise, to permit ejection of refuse from RCV hopper when hydraulic valve is actuated. There shall be automatic locking arrangement between tailgate and RCV hopper body. This locking system shall be completely liquid proofed between tailgate and refuse collection body by using double rubber lip seal.

**10.** The Tailgate hopper shall have a capacity of minimum 1.75M3

**11.** Slide plate – The Slide Plate shall be actuated by 2 Hydraulic Cylinders and must run on suitable number of sliding blocks.

**12.** Packer Plate – The Packer Plate shall be actuated by 2 Hydraulic Cylinders.

**13.** The Tailgate lifting and closing as well as the compaction operation will be controlled with Hydraulic Lever System.

**14.** 11 Hydraulic Cylinders shall be installed covering following operation

**15.** 1 three-stage telescopic ram, double-acting for the ejection panel.

**16.** 2 hydraulic rams, double-acting for the slide plate

**17.** Double acting Slide-cylinders (for compacting) shall be located outside of the sidewalls. The cylinders are mounted in pushing position.

**18.** 2 hydraulic rams, double-acting for the packer plate

**19.** 2 hydraulic rams, double-acting for the tailgate

**20.** 2 hydraulic rams, double-acting for container lifting arms

**21.** 2 hydraulic rams, double-acting for stabilizers.

**22.** All Cylinders shall be of reputed make from ISO certified organization.

**23.** The Hydraulic oil tank shall be of minimum 140 Liters capacity. First fill of hydraulic oil and other consumables to be provided in the equipment.

**24.** Working light, Rotating Beacon light, Backing light, Stop light, Direction indicator and Number Plate light to be provided in the RCV.

**25.** **SAFETY FEATURES**

**26.** Hose burst valve shall be fitted to the system to prevent the tailgate descending in the event of the hydraulic failure. There shall be a body prop provided on the tailgate to hold the tailgate in the open position for safety of workshop personnel when entering the body for maintenance or repair.

**27.** **Painting**

**28.** The entire unit shall be painted with two coats of superior quality anit-corrosive primer with two coats of approved quality paint to ensure long lasting, resistance to rust, weathering and breakage. The color shade shall be purchaser's choice selected from the standard colors offered by the supplier.