



TECHNICAL SPECIFICATION OF 4 CUBIC METER CAPACITY REFUSE COMPACTOR VEHICLE

SPECIFICATION OF REFUSE COMPACTOR VEHICLE (RCV)

The Refuse Compactor Vehicle shall be easy to handle and allow the bin handlers to unload Solid Waste from the Bins into the Machine Tailgate hopper with minimum physical effort and maximum safety. Hand lever arrangement for operation of Compaction Cycle shall be provided. The RCV shall have a bin lifter capable of unloading garbage from closed containers of 1100 liters capacity. The Tailgate loading height shall not be more than 1.2 Meters from the ground level.

The RCV would be 4 M³ Capacity. The Tailgate hopper capacity will be minimum 1.0 CBM. The Bin Lifter shall be also able to unload garbage simultaneously from two bins of size upto 120 Ltrs, 240 Liters.

REFUSE COLLECTION BODY

The refuse compactor shall be of 4M³ Capacity and be in torsion-free steel construction. Body Material- High Strength Steel, Corrosion Resistant

Compaction Ratio:- Minimum 3:1

Roof panel thickness – Minimum 3.5 mm

Side Panel thickness – Minimum 3.5 mm

Floor thickness – Minimum 4 mm

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

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.

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

Tailgate

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.

The Tailgate Hopper shall be able to take the refuse from 1100 ltrs. garbage bins. The Tailgate hopper shall have a capacity of minimum 1.0 CBM

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

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

Lifter System

The Lifter System shall be capable of lifting and unloading garbage from 1100 ltrs. capacity bins. The Bin Lifter shall be also capable to unload garbage simultaneously from two bins of size upto 120 Ltrs, 240 ltrs. The lifter system shall be provided with two hydraulic cylinders for tipping operation.

The RCV shall be equipped with following hydraulic system:

Hydraulic actuation via Hydraulic Pump driven by the P.T.O. of the Vehicle. The Tailgate lifting and closing as well as the compaction operation will be controlled with Hydraulic Lever System.

- 1 two-stage telescopic ram, double-acting for the ejection panel.
- 2 hydraulic rams, double-acting for the slide plate
- Double acting Slide-cylinders (for compacting) shall be located outside of the sidewalls. The cylinders are mounted in pushing position.
- 2 hydraulic rams, double-acting for the packer plate
- 2 hydraulic rams, double-acting for the tailgate
(lifting/lowering and automatic locking)
- The lifter shall be integrated in the tailgate and have
- 2 Tipping cylinders

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

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

Safety Features

Emergency stop Button, overload protection and hydraulic Safety valves, 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.

Painting

The entire unit shall be painted with two coats of superior quality anti-corrosive Epoxy primer with coats of approved quality paint to ensure long lasting, resistance to rust, weathering and breakage. The colour shade shall be purchaser's choice.

Truck chassis

The equipment shall be mounted on suitable Truck Chassis.