

## SPECIFICATION RT57-03-08-04

### REFUSE COMPACTOR BODY FOR 7TON PAYLOAD TRUCK

An approximately 12m<sup>3</sup> to 15m<sup>3</sup> refuse compactor body of robust construction, fitted with a PTO driven hydrostatic system, complying to the following is required:

#### Power take-off

The power take-off must be suitable to drive the hydraulic system that provide for all the hydraulic controls and operational requirements. The power take-off on the compaction vehicle shall be so arranged that it cannot be engaged while the vehicle is traveling.

Particulars of offer: \_\_\_\_\_

The power take-off should automatically disengage before the vehicle moves off. Any similar protection for the PTO may also be offered.

Particulars of offer: \_\_\_\_\_

A clear audible and light must be fitted to warn the driver when the PTO is engaged.

Particulars of offer: \_\_\_\_\_

#### Compaction Body

1. The heavy duty body shall be of the fully enclosed type, adequately constructed, supported and reinforced to withstand the high stresses and varying load conditions generally experienced with mechanical refuse collection vehicles.

Particulars of offer: \_\_\_\_\_

2. The body shall be of all welded construction, manufactured from corten steel or similar. Full specifications of the steel used in the manufacture shall be submitted with the tender. All hinges, locking mechanisms, doors, tailgates, compression plates etcetera shall be of heavy substantial construction, adequate in proportions to withstand all loading conditions without breaking, buckling or warping and shall be provided with substantial sealing arrangement.

Particulars of offer: \_\_\_\_\_

3. The body shall be effectively sealed to ensure that no refuse, liquids or other materials are wasted or spilled on the road surfaces during loading, compaction or transportation.

Particulars of offer: \_\_\_\_\_

4. The capacity of the body shall be 12m<sup>3</sup> to 15m<sup>3</sup> (air space) and the compaction ratio shall be at least six to one with standard city refuse.

Particulars of offer: \_\_\_\_\_

Capacity of load area: \_\_\_\_\_

Compaction ratio: \_\_\_\_\_

5. Low loading height, large hopper capacity and easy loading characteristics are of prime importance and the loading position must be provided at the rear of the body work, extending the full width of the body.

Particulars of offer: \_\_\_\_\_

6. Compaction shall be by means of a suitably arranged, amply rated heavy duty hydraulic system actuated by the vehicle's PTO. The drive from the PTO to the hydraulic pump shall be balanced to prevent vibration and ensure quiet performance. Close coupled hydraulic pumps will be preferred.

Particulars of offer: \_\_\_\_\_

7. The engine's speed control must include an electrical control or other approved arrangement whereby the engine speed is limited to that required for the power take off drive to operate at the most satisfactory speed for smooth compaction and ejection operations.

Particulars of offer: \_\_\_\_\_

8. The hydraulic system shall incorporate on the return lines, a suitable full flow filter with a replaceable element.

Particulars of offer: \_\_\_\_\_

9. Discharge or ejections shall be by means of an effective and easily controlled hydraulic system. The discharge or ejection arrangement must ensure efficient and complete discharge of all types of city refuse.

Particulars of offer: \_\_\_\_\_

10. Provision shall also be made for loading of bulk materials, objects or large dimensions and garden refuse.

Particulars of offer: \_\_\_\_\_

11. The hydraulic system on the vehicle shall be adequately protected by means of relief valves and controls to prevent excessive pressures and overloading. It shall be equipped with the necessary isolating valves to replace the filter, without draining the hydraulic system

Particulars of offer: \_\_\_\_\_

12. Compaction and ejection operations shall be easily and effectively controlled by means of controls situated on the left hand side of the vehicle (Hopper controls mounted left hand rear and ejection controls towards the centre). Provision should be made for a buzzer with push button at rear controls warn the operator for engaging and disengaging of PTO.

Particulars of offer: \_\_\_\_\_

13. Particular attention must be given to safety in general and all the available features to ensure safe operation and manipulation shall be incorporated.

Particulars of offer: \_\_\_\_\_

14. If an electric control system is incorporated in the control layout it must be adequately protected by means of fuses or circuit breakers and isolating switches, all clearly labelled. The wiring must be properly protected and be of highest standard, PVC type arranged within suitable covered wiring loom.

Particulars of offer: \_\_\_\_\_

15. The electrical or any other system must incorporate emergency stop controls as further enumerated elsewhere in this specification.

Particulars of offer: \_\_\_\_\_

16. All controls shall be clearly and permanently labelled by means of metal embossed plates and the controls must be arranged on the left rear side of the body (pavement side).

Particulars of offer: \_\_\_\_\_

17. The emergency system shall incorporate an interconnected circuit with a buzzer warning device in the driver's cab to enable the attendants to warn the driver immediately should an emergency arise. The buzzer control must be arranged with the loading and ejector controls at the rear.

Particulars of offer: \_\_\_\_\_

18. The emergency stop control to remain effective until again manually brought in operating cycle position.  
Particulars of offer: \_\_\_\_\_
19. Separate emergency controls for every operation must be provided at the operating point.  
Particulars of offer: \_\_\_\_\_
20. At the rear of the vehicle shall be a bin lifter suitable for both the 1.1m<sup>3</sup> Sprico refuse containers and the 240 litre Otto bins this must be offered as an optional extra.  
Particulars of offer: \_\_\_\_\_
21. Provision shall also be made for a steel toolbox attached to the chassis in a suitable position. The measurements thereof shall be approximately 900 mm long by 450 mm wide and 380 mm deep with a suitable lid and lock.  
Particulars of offer: \_\_\_\_\_
22. Provision for slip free rear steps and grab rails shall be made at the rear end of the vehicle to accommodate attendants.  
Particulars of offer: \_\_\_\_\_
23. The body shall match the chassis and the complete refuse vehicle shall be of satisfactory general proportions and of neat appearance.  
Particulars of offer: \_\_\_\_\_
24. The body and all other components shall be finished off neatly and the workmanship must be of high standard.  
Particulars of offer: \_\_\_\_\_
25. A separate removable, totally enclosed, all metal attendant's cabin shall be provided between the driver's cab and the compaction body. The dimensions shall be approximately 2300 mm x 950 mm x 1920 mm high (Size to be confirmed by end user and is dependent on specific chassis cab offered).  
Particulars of offer: \_\_\_\_\_
26. Room for at least five sitting workers shall be provided inside the attendant's cabin.  
Particulars of offer: \_\_\_\_\_
27. The design of the enclosed attendants cabin and shape of its roof is to match the vehicles layout particularly the driver's cab and the compaction body.  
Particulars of offer: \_\_\_\_\_
28. The totally enclosed attendant's cabin shall be arranged with a door with window on the left side. All the other sides to be enclosed with suitable positioned windows in the front and right hand side.  
Particulars of offer: \_\_\_\_\_
29. The windows shall be fitted with safety glass.  
Particulars of offer: \_\_\_\_\_
30. The attendants cab must be bolted on and easily removable from the chassis. The floor of the cab must be easily removable to allow access to the transmission or other chassis components. Drain holes must be provided in the cab floor.  
Particulars of offer: \_\_\_\_\_

31. The floor shall be of 5 mm checker plate, adequately supported. Checker plate steps on the left side, substantial hand and grab rails shall be provided to ensure easy and safe access for the attendants.

Particulars of offer: \_\_\_\_\_

32. Adjustable type louvers shall be fitted for cross ventilation or other system that can be closed off in cold weather.

Particulars of offer: \_\_\_\_\_

33. Full particulars of the proposed attendant's cabin and the layout as fitted to the vehicle must be shown on a drawing submitted with the tender.

Particulars of offer: \_\_\_\_\_

34. The attendants cab must fully comply with the Health and Safety Act, Road Traffic Act as well as any other regulation and act.

Particulars of offer: \_\_\_\_\_