

**Scope of Work/Technical Specification**

Supply, Installation and Commissioning of Mobile Compactor Filing System on rails also known as Optimizer / Movable racks / shelves.

1. **Scope of Work/Technical Specification:** The works involves Supply, Installation and commissioning of machine powder coated metal body factory finished movable storage filing racks i.e., mobile compactors/ optimizers with detail as follows:
2. **General Description:** The Compactor / Optimizer Storage System should be an efficient space saving storage arrangement catering to a variety of office storages requirements. It should consists of storage units of 381 mm deep - fixed or movable - bolted to undercarriage which rolls onto the channels, which, are firmly embedded to the ground with minimum 2 Rails and 1 Bay and Drive type where Bay denotes side by side unit placements in a block.

Each compactor shall have following type of blocks:

1. Single Static (SS)
2. Single Last (SL)
3. Twin Mobile (TM) - 2 body back to back.

**A. Main Body:**

- a) **Construction:** The overall construction of the main body to be rigid knockdown/ welded construction made out of minimum 0.8 mm thickness CRCA steel conforming to IS: 513 Gr.D. The unit should have 06 loading levels formed by 5 Nos. adjustable shelves. Body units are bolted to undercarriage. Also, each body will be bolted back to back for Twin mobile & side to side for two bays.

Main body consists of Single static, Single Last and Twin Mobile Blocks.

- b) **Size (Minimum required dimensions):**

Depth: 381 mm; Width: 915 mm; Height: 2360 mm +/- 15mm (Body excluding under structure and rails)

- c) **Finish:**

The body including shelves will be given antirust surface treatment & are powder coated with epoxy polyester powder. Final finish will consist of epoxy polyester powder coating of approved color& shade with a Dry Film Thickness of minimum 40 microns.

**B. Shelf:**

- a) **Construction:** Shelf will be made of 0.8 thick CRCA steel conforming to IS:513 Gr.D or DD with max load bearing capacity of 80 Kg uniformly distributed per shelf. Shelves will be mounted on support brackets & shelf level adjustable at approx. 25.4 pitch. There will be 5 adjustable shelves per body giving 6 loading levels.

THE OPTIMIZERS SHOULD HAVE THE PROVISION THAT AT ANY POINT OF TIME CRADLES CAN BE INSTALLED INSTEAD OR ALONG WITH SHELF. FOR THE SAME 2 NO. OF RODS CAN BE PROVIDED BELOW THE SHELF. THE CRADLES CAN BE INSTALLED WITHOUT CARRYING OUT ANY HEAVY MECHANIZED WORKS LIKE DRILLING/ DEASSEMBLING AND ASSEMBLING OF THE OPTIMIZER.

- b) **Size:** Shelf depth should be 381 mm (except at single first and single last unit).

**C. Undercarriage :**

- a) **Construction:** The construction of the undercarriage to be as a Welded type made of HR sheet minimum 3 mm thickness conforming to IS: 1079 suitably fabricated to take the loads based on configuration.

- b) **Size(Minimum required specifications):**

Sizes of Undercarriage: Single Static / Single Last - 915 x (Width) X 457 (Depth) X 65 (Height)

Twin Mobile - 915 (Width) X 762 (Depth) X 65 (Height)

- c) **External Load carrying capacity per under structure:**

Drive type: 80 x (total nos. of shelf above it) Kg.

- d) **Finish:**

The undercarriage, after pre-treatment, is to be coated with final finish consisting of epoxy polyester powder coat of approved color & shade with a Dry Film Thickness of minimum 40 microns.

**D. Fittings:**

- a) **Locking:** Locking arrangements is to be provided for the movable bodies as represented in the attached diagram. The locking should be in such a way that the bodies marked in the diagram should be locked together. The locking arrangement should be UNIQUE LOCK AND KEY ARRANGEMENT with the lock openable only by KEY HOLDER. All the locks provided in the system must have SEPARATE AND UNIQUE KEYS. Every lock must be accompanied with minimum 3 set Of Keys. The lock should be mounted onto back/side of the

Supply and installation of Compactor Optimizer (Movable File Storage System) at Circle Office, Ahmedabad  
last unit indicated to be locked together without compromising the aisle/storage space.

Each Drive type unit should have the provision of “locking Knob” in the Drive wheel for manual locking of individual units when a person is using those units, Knob shall be turned and pressed inside when units are to be locked. End stoppers will be provided at the end of channels to prevent derailment.

**UNITS WITH SINGLE BAY:**

**Centralized Locking:** A Centralized locking arrangement will be provided mounted onto back of Single Last unit so that it gets locked on channels when all the units are brought together. The handle lock shall be of standard make & placed at suitable height.

Each Drive type unit should have the provision of “locking Knob” in the Drive wheel for manual locking of individual units when a person is using those units, Knob shall be turned and pressed inside when units are to be locked. End stoppers will be provided at the end of channels to prevent derailment.

- b) **Hinge Doors & Locking:** It is made of 0.8 mm thick CRCA steel confirming to IS: 513 Grade D. Hinged doors have recessed die cast Handle cum lock giving 3 way locking through lever and shooting bolts. DOORS ARE TO BE PROVIDED ONLY AT PLACES INDICATED IN THE ATTACHED DRAWING.
- c) **Fasteners:** The nuts & bolts will be galvanized / blackodized / Zn Plated.
- d) **Guide Channels:** It will consist of 'J'/'C' section minimum 2 mm thick HR sheet & round/square bars on bothside connected by screws. Prior to that embedding of the guide channels with the help of raul plug & screw, the ground has to be in properly levelled condition.
- e) **Label Holder:** Each unit must have label holder/holders made of clear transparent Acrylic sheet.
- f) **Movements of the System:**
  - i) **Drive Type configuration:** The movement of units should be achieved mechanically through a PU Drive wheel and ‘Sprocket-ChainTensioner’/ mechanized drive system arrangement mounted rigidly onto body side. PUSH PULL TYPE CONFIGURATION IS NOT ALLOWED.
  - ii) The system will be mounted on pair of channels. Each movable undercarriage is provided with sufficient Rollers on the shaft for driving, with antifriction ball bearings for rolling and ball bearing for guiding between rails.

- g) **Aisle Space:** Generally, for comfortable movements, the clear aisle space kept on the Handle / Drive Wheel side should be minimum 900mm. Also, the aisle for comfortable accessing of inside of units, when rolled apart should be minimum 900 mm.
- h) **Anti topple mechanism:** The compactor should be with anti-topple mechanism.
- i) **Warranty:** 3 years Onsite from date of successful commissioning. (with Parts And Labour)

### **TECHNICAL DETAILS**

| Sl. No. | Feature   | Minimum Required Specifications : Read with above technical specifications   | Specifications by bidder (Data to be provided) |
|---------|---|--|--|
| 1       | Height of the body (excluding rails and under structure)    | 2360 mm +/- 15mm   |  |
| 2       | Width of the Cabinet  | 915 mm   |  |
| 3       | Overall Depth of the Cabinet (Twin body)                    | 762 mm   |  |
| 4       | Overall Depth of the Cabinet (Single first and single last) | 457 mm   |  |
| 5       | Type of Movement  | Chain sprocket/Mechanized  |  |
| 6       | M S Sheet Thickness of the Cabinet Body                     | 0.8 mm   |  |
| 7       | M S Sheet Thickness of the shelf panels                     | 0.8 mm   |  |
| 8       | Provision of cradles  | The optimizers should have the provision that at any point of time cradles can be installed instead or along with shelf. A rod should be provided.   | Yes/NO   |
| 9       | M S Sheet Thickness of the undercarriage                    | 3.00 mm  |  |
| 10      | Sheet thickness of Doors                                    | 0.8 mm   |  |
| 11      | Type of Locking System of the movable file storage system   | Locking arrangement to be provided such that indicated number of units in the plan gets locked together. The lock should be mounted onto back/side of the last unit indicated to be locked together. Each Drive type unit should have the provision of "locking Knob" in the Drive wheel for manual locking of individual units. | Yes/No   |
| 12      | Load carrying capacity of each shelf                        | 80 Kg  |  |
| 13      | M S Sheet Thickness of the undercarriage                    | 3.00 mm  |  |
| 14      | Aisle Space   | 900 mm   |  |
| 15      | Paint   | Epoxy polyester powder coating (40 microns)  |  |
| 16      | Free Assembly of Knock Down                                 | Yes/No   |  |
| 17      | Delivery Schedule   | 15 days  |  |
| 18      | Warranty  | 3 years Onsite from date of successful commissioning. (with Parts And Labour)  |  |

All other detailed specifications to be complied as mentioned in technical specifications

Note: The right to reject / accept any deviation, minor or major in technical specifications is reserved with Canara Bank.