

# **REVISED SPECIFICATIONS FOR 3 BAY DRIVE TYPE (MECHANICAL) COMPACTORS / OPTIMIZERS FOR STORAGE SYSTEM WITH INDEPENDENT DOORS AND LOCKING SYSTEM**

**COMPACTOR / OPTIMIZER STORAGE SYSTEM:** An efficient space saving storage management catering to office requirements for storage of office files, stationary, manuals, documents etc.

## **TYPE :**

Three Bay Drive Type Mechanical Compactor / Optimizer

Configurations shall have the following Blocks

- a) Three Bay – Single Faced – Fixed Last Unit
- b) Three Bay – Single Faced – Movable First Unit
- c) Three Bay – Double Faced – Movable Middle Units
- d) Rails / Channels for movement of Units

## **BODY :**

The compactor body shall be of Box clad structure made of prime quality CRCA Steel pre-coated galvanized sheet of 0.8mm thick with protective film and material confirmed to IS 14246 Class – 3/**IS:513 Grade D** and DFT of pre-coating is approx. 30-40microns.

Weld less multiple bends body with complete knock down and in built upright in front panel.

\* NO SLOTTED / FORMED ANGLES TYPE ARE ALLOWED

Compactor Rows consists of one 3 bay single faced fixed last unit and it shall be continued with combination of 3 bay double faced twin movable blocks and 3 bay single face movable first unit (i.e. 3 bay double faced twin movable blocks shall be fixed in between 3 bay single faced fixed last unit and 3 bay single faced movable first unit). The number of 3 bay double faced movable blocks shall be specified in the variant table furnished in enclosed annexure- I and as per drawings.

## **DIMENSIONS OF THE UNITS**

THREE BAY – SINGLE FACED – FIXED LAST UNIT – 2350**(+ 0.5%)** H X 2745W X 457 D (in mm)

THREE BAY – SINGLE FACED – MOVABLE LAST UNIT – 2350**(+ 0.5%)** H X 2745W X 457 D (in mm)

THREE BAY – DOUBLE FACED – MOVABLE MIDDLE UNITS – 2350**(+ 0.5%)** H X 2745W X 914 D (in mm)

Overall height of compactor from Ground level to Compactor Top panel shall be = 2500 **(+ 1%)** OR **(- 0.6%)** mm

(i.e. Body – 2350**(+0.5%)** mm + Base Frame + 120**(+/-10%)** mm + Track & Moving Clearance – 30 **(+/-10%)** mm)

**Note:- Tolerance given above also applies to all the relevant drawings.**

## **TOTAL QUANTITY**

The total rows, quantity and No. of units shall be as per details shown in variant table and drawings in enclosed annexure I.

Erection & commissioning of above units shall be carried out in Ground Floor & First Floor of the building. The Quote shall be inclusive of supply, erection, commissioning, transportation, material movements to site with all leads and lifts including all accessories required for commissioning of total compactor system.

### **SHELVES:**

Shelves shall be in 10 fold for better strength and better load bearing capacity. It shall be made of CRCA Steel, prime quality pre-coated sheet of 1mm thick with protective film. Load bearing capacity of each shelf shall be 70 Kgs UDL.

Each body shall be with 6-compartments with 5 adjustable shelves / cradles to hold folders. Rubber / PVC stud: - Protective Rubber / PVC Studs shall be provided in between bodies to avoid any chance of damages and minimize noise emission and prevent scratches during movement of respective bay units.

### **DOUBLE FACED UNITS:**

Two units of same Size of individual block shall be integrated to form Double Faced Movable Units with the same Specification of Body.

### **BASE FRAME:**

The Base Frame shall be powder coated and fabricated in 'C' channel OR 'J' Channel from HR sheet conferring to IS 2062 / IS 1079 / IS: 10748 and thickness shall be HR-10 Gauge.

### **GUIDE RAIL:**

The Guide Rail shall be made 32x16mm bright flat housed in a 'C' Channel made of 2mm thick HR Sheet OR J Channel made of 2mm thick HR sheet and 25mm Square bright bar conferring to IS 2062 / IS 1079. It should have flanges on either side with ball bearings for free movement of compactor bodies. Guide Rail shall be provided with stopper to stop derailment of unit and shall be fitted in ground with grouting bolts.

### **DRIVE MECHANISM:**

The Drive Mechanism shall be worked on chain and sprocket system and special grade anti friction bearing to have smooth and effortless movement.

- 1) Each mobile unit shall be 6 Nos. of Mild steel wheels. Each wheel shall be provided with a pair of self-aligned, ball bearings.
- 2) The drive mechanism comprises of sprocket chain type arrangement.

- 3) The chain used shall be high quality material.
- 4) The drive mechanism shall be provided on the external front side of the compactor system.
- 5) The drive mechanism shall be concealed from all sides.

#### **INDEPENDENT DOORS WITH LOCKING SYSTEM:**

Each bay face of units of compactor shall be provided with 2 Nos. of independent hinged operable doors of CR-20 Gauge minimum thickness sheet confirming to IS 14246 Class – 3 OR IS:513 Grade D and DFT pre-coating is approximately 30-40 microns. The doors shall be provided with recessed die cast handle cum lock giving 3 way locking system through a liver and shooting bolts.

Each 3 bay face unit shall have 6 Nos. of doors with independent locking system.

#### **ANTI-TOPPLE MEASURE:**

The anti-topple system shall prevents the body from toppling and act as a safety device.

#### **DRIVING WHEEL & SAFETY LOCK:**

High quality PU/PP handle shall be provided with three attractive arms & holding bar for easy drive. The Safety lock shall be aluminum casted spring loaded knob type which shall be situated under the handle for easy locking at any position of unit.

Drive cover shall be made of 1mm thick pre-coated or CRCA (confirming to IS 513) prime quality steel and of box type to cover the entire drive mechanism completely.

#### **MAIN LOCKING:**

The system shall be provided with locking on the last unit in such a way as to ensure that when all the units are brought together and the lock is operated, it does not allow access to the units.

#### **AISLE SPACE:**

Aisle Space inside of units shall be approx. around 760mm.

#### **INDEXING ARRANGEMENT:**

Acrylic indexing pockets shall be provided on each front panel of the Compactor units for easy identification and retrieval.

#### **FASTENER:**

Galvanized / Zn Plated fasteners (nuts & bolts)

#### **ANTI RUST TREATMENT:**

All the components of mobile units shall be pre-treated of 7-steps anti-corrosion treatment like degreasing, pickling, & phosphating before carrying out Powder coating. Shot blasting is also using for pre-treatment.

**FINISH :**

All the body components shall be pre-coat with protective film in polyester finish (minimum 30-40 microns) base frames, rail & lock box, which are powder coated. DFT of powder coated items shall be 40-60 microns.

The testing of powder coating shall be done for various physical & chemical properties as per IS 101 & oven baked with a controlled temperature of 180 deg. C to 200 deg. C.

**Pre-Qualification Criteria**

Sl. No.	BHEL Terms	Supplier's Compliance
1.	Only Manufacturers/Authorized Distributors of OEMs Offers shall be considered for the tender enquiry. OEM shall give Authorization Letter for only One distributor for all the range of items and Distributor shall enclose Authorization Letters in the techno-commercial bid without which their Offer cannot be considered. (OEM – Original Equipment Manufacturer).	
2.	Manufacturer/OEM should have ISO 9001, ISO 14001, ISO 18001 and BIFMA (Business and Institutional Furniture Manufacturer's Association) certification. Bidders shall enclose all the certifications in the techno-commercial bid.	
3.	Bidder should have successfully completed similar supplies (Supply of <u>COMPACTORS / OPTIMIZERS FOR STORAGE SYSTEM WITH INDEPENDENT DOORS AND LOCKING SYSTEM</u> ) for single work value of minimum Rs.200/- Lakhs in the past 2 years ending by 31/03/2015.  Bidders shall enclose the Purchase Order copies (or) Work Order copies as per above in the techno-commercial bid.	
4.	Bidder should have annual financial turnover of Rs. 2 crores for the last three consecutive years ending by 31/03/2015 in the techno-commercial bid.	
5.	Bidder should have supplied the similar Compactors / Optimizers in Central/State Government sector, Corporate Sector, PSU's etc. The tender shall furnish performance certificate by the competent authority of the client, certifying / qualifying workmanship of Compactors / Optimizers supplied by the tenderer.	

	Bidders should enclose relevant performance certificates in the techno-commercial bid.	
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**Note: Non Submission of the above requested documents/noncompliance to the above points may leads to rejection of Offers.**

**Annexure**

**Variant Table showing Quantities of Units**

**Item No. 10:- CG3150000017** - **Quantity – 15 Sets**

**Each Set Contains**

- a) 3 bay single faced fixed last unit – 1 No.
- b) 3 bay single faced movable first unit – 1 No.
- c) 3 bay double faced movable middle units – 4 Nos.

Total No. of Sets – 15

Total No. of Units for 15 Sets

- a) 3 bay single faced fixed last units – 15 Nos.
- b) 3 bay single faced movable first units – 15 No.
- c) 3 bay double faced movable middle units – 60 Nos.
- d) Total 180 compartments with 150 adjustable shelves.
- e) Total No. of Doors with independent locking system – 60 Nos.

The Supply, erection and commissioning of total compactor system shall be as per the specification and includes above units, Base Frames, Guide Rails, Drive mechanism, driving wheels, safety locks, indexing fasteners and any other required spares.

**Item No. 20:- CG3150000025** - **Quantity – 15 Sets**

**Each Set Contains**

- a) 3 bay single faced fixed last unit – 1 No.
- b) 3 bay single faced movable first unit – 1 No.
- c) 3 bay double faced movable middle units – 2 Nos.

Total No. of Sets – 15

Total No. of Units for 15 Sets

- a) 3 bay single faced fixed last units – 15 Nos.
- b) 3 bay single faced movable first units – 15 No.
- c) 3 bay double faced movable middle units – 30 Nos.
- d) Total 108 compartments with 90 adjustable shelves.
- e) Total No. of Doors with independent locking system – 36 Nos.

The Supply, erection and commissioning of total compactor system shall be as per the specification and includes above units, Base Frames, Guide Rails, Drive mechanism, driving wheels, safety locks, indexing fasteners and any other required spares.