



**PRODUCT STANDARD
PROJECT ENGINEERING
HYDERABAD**

PY 51612

Rev No. 00

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TECHNICAL SPECIFICATION

FOR

COMPACTORS

LOCATION : PE&SD Building, BHEL, R.C. Puram, Hyderabad-32

Ref. Doc

Revision :00

Refer to record of revisions :

Prepared:

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Approved :

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Date :

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company. Ref. Doc DOCUMENTS TO BE SUBMITTED WITH THE BID: The bidder to submit the following documents - Technical offer. - General Arrangement drawing - Un-priced commercial offer as per price format as per Annexure-1 - Preparatory woks to be taken care by owner. <u>TECHNICAL SPECIFICATION FOR COMPACTORS</u> 1.0 Intent of specification This specification covers the design, manufacture, testing at vendor's work, packing, transportation, receipt, unloading, storage, site erection, testing, commissioning and handover to owner the following Compactors for the Store Rooms located in ground & first floor of PE&SD building. 2.0 Scope of supply and services Designs, supply of material, fabrication, erection, and inspection & testing, commissioning and handing over of Compactors for the Store Rooms of PE&SD building are covered under this specification. 2.1 Scope of supply : The scope of supply shall be as follows: 2.1 Compactor Layout for Store -1, (Material No- PY9751612047) - Single faced static unit - 1980H X 3660W X 457D (mm.) – 1no - Single faced movable unit - 1980H X 3660W X 457D (mm.) – 1 - Double faced movable unit - 1980H X 3660W X 914D (mm.) – 5 nos - Total No Doors = 96 nos 2.2 (i) Compactor Layout for Store–2 , Unit –1, (Material No- PY9751612055) - Single faced static unit - 1980H X 1830W X 457D (mm.) - 1 no - Single faced movable unit - 1980H X 1830W X 457D (mm.) - 1 no - Double faced movable unit - 1980H X 1830W X 914D (mm.) – 5 nos - Total No of Doors = 48 nos (ii) Compactor Layout for Store–2, Unit –2, (Material No- PY9751612063) - Single faced static unit - 1980H X 1830W X 457D (mm.) – 1 no - Single faced movable unit - 1980H X 1830W X 457D (mm.) – 1 no - Double faced movable unit - 1980H X 1830W X 914D (mm.) – 3 nos - Total no of Doors = 32 nos			

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		3.0 General Technical Specifications 3.1 Overall height of compactor from ground level to top panel shall be 2050 to 2100 mm. 3.2 Load bearing capacity of each shelf shall be 60 – 70 Kgs. 3.3 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 8-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. 3.4 Double Faced Units: Two units of the same size of the individual block shall be integrated to form double faced movable units with the same specification of the body. 3.5 Body Finish & Make : Body shall be made up of prime quality Pre-coated sheet of 0.8mm. thick with protective film, material conformed to IS 14246 & DFT of pre-coating appox. 40-50 microns. Weld less multiple bends body with complete knock down & inbuilt upright in front panel. 3.6 Central partition(Shear side) shall be made of two parts one is side panel & second one shall be vertical channel which are joint by special clinching process i.e. a process which is used for joining two parts by pressing it with pneumatic pressure. 3.7 Adjustable Shelf Brackets : Adjustable Shelf brackets of HR-14G (material is confirmed to IS 2062/ IS 1079) shall be provided at all 4-corners of the shelf. 3.8 Rubber / Pvc Stud : Protective rubber/pvc stud to be provided in between bodies to avoid any chance of damages and to minimize noise emission and prevent scratches during movement of respective bays. 3.9 Rigid Base Frame : Rigid frame of welded construction, heavy duty made of hot rolled sheet (H.R. Sheet) Conforming to IS 2062/ IS 1079/ Is 10748, with 3.15 – 4 .0 mm thickness and capable of taking specified load and capable of being driven without getting distorted. High degree of manufacturing accuracy shall be maintained to ensure minimum distortion and warping in the frame. Consequently, the base frame to remain easily movable even while carrying full loads. 3.9 Driving Wheels & Mechanism:A pair of M.S. wheels & a pair of anti frictional ball bearing shall be fitted in every base frame for smooth & easy drive. In Layout -1, additional wheels & bearing shall be provided to achieve stability and load carrying capacity. All bearings shall be self aligned, maintenance free, self lubricating type and sealed for life. The driving mechanism shall be smooth and simple working on chain & sprocket system and special grade anti friction bearings to have smooth and effortless movement.		
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		a) Each mobile unit has 6nos./ 8 nos. of Mild steel wheels & each shall be provided with a pair of self-aligned ball bearings. b) The drive mechanism comprising of sprocket chain type arrangement. c) The chain used shall be of high quality material. d) The drive mechanism shall be provided on the external front side of the compactor system and shall be concealed from all side. 3.10 Guide Rail : Guide Rail shall be made up of 32x16 mm bright flat housed in a C channel made up of 2 mm thick HR sheet (conforming to IS:2062 / IS:1079). It should have flanges on either side with ball bearings for free movement of compactors bodies. Guide rails shall be provided with stoppers to stop derailment of the units and shall be fitted to the ground with grouted holding down bolts. 3.11 Round Comfortable Pu-Handle : High quality PU handle of diameter 320 - 350 mm. shall be provided with three attractive arms & holding bar for easy drive. The Safety lock shall be aluminium cast spring loaded knob type under the handle for easy locking at any position of unit. Drive cover shall be made up of 1mm. thick pre-coated or CRCA (conforming to IS:513 prime quality steel and of box type to cover the entire drive mechanism completely. 3.12 Main Locking Arrangement: The system shall be provided with locking arrangement on the last unit in such a way that when all the units are brought together and the lock is operated, it does not allow access to the units. 3.13 Indexing Arrangement: Transparent Acrylic Indexes arrangement shall be provided on each front panel of the compactor units for easy identification & retrieval. 3.14 Hinged Door: Hinged Doors are to be provided in the compactor panels with locking arrangement. Doors shall be made up of Cr-20 G sheet conforming to IS:513 with recessed die cast handle cum lock giving 3 way locking through lever & shooting bolts. 3.15 Aisle Space: Aisle space inside the units shall be minimum 760mm approximately. 3.16 Fasteners: Galvanised fasteners shall be used for all nuts & bolts. 3.17 Antirust Treatment : All the components of mobile units shall be pre-treated of 7-steps anti-corrosion treatment like degreasing, pickling, passivation & phosphating before carrying out Powder coating. Shot blasting shall be used for pre-surface treatment 3.18 Finish: All the body components shall be pre-coated with protective film in polyester finish,(minimum 40 mic) with RAL 9006 shade except the base frames, rail & lock box, which are powder coated in satin black shade. DFT of powder coated items are 40-65 microns.		
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4.0 Delivery Period Supply & Installation shall be carried out within 1 month (30 days) from the date of LOI / PO.. 5.0 Guarantee Vendor shall furnish a guarantee certificate for the satisfactory performance of the supplied equipment for a period of 12 months from the date of handing over.					

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		Rev. No.	Date	Revision Details	Prepared By	Checked By	Approved By	
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