



EPD - BANGALORE

**HEAVY DUTY MOTORISED MOBILE PALLET
RACKING SYSTEM FOR SPV RAW MATERIALS**

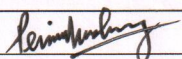
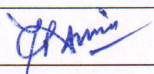
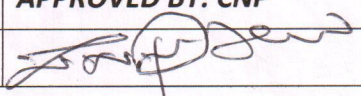
**SPECIFICATION NO.
EP-WEX-SPV-RM-00/2016**

TECHNICAL SPECIFICATION

FOR

HEAVY DUTY MOTORISED MOBILE PALLET RACKING SYSTEM FOR SPV RAW MATERIALS

**BHARAT HEAVY ELECTRICALS LIMITED
ELECTROPORCELAIN DIVISION
IISC POST, BANGALORE, INDIA - 560012**

REVISION DETAILS:	PREPARED BY: PK	DATE	23.09.2016
			
Rev. 00	REVIEWED BY: Y RAVI	APPROVED BY: CNP	
			
			

 EPD - BANGALORE	HEAVY DUTY MOTORISED MOBILE PALLET RACKING SYSTEM FOR SPV RAW MATERIALS	SPECIFICATION NO. EP-WEX-SPV-RM-00/2016
---	--	--

Purpose : To store SPV Raw Materials – ARC Glass and Solar PV Cells

Scope of Work : Design, Manufacture, Supply and Installation of Heavy Duty Motorized Mobile Pallet Racking System for SPV Raw Materials
(Indicative Drawing No. SPV/RM/00/2016 provided for reference)

Size of the Storage Yard : 13.5 x 20 meters – approximate

Height of storage : Upto 6 meters

Size of the goods to be stored :

1. Size of the pallet containing 100 Nos of ARC Glass-2030x1060x500 mm–App weight:2000 kg
2. Size of the pallet containing 120 boxes of PV Cells–970x1150x850 mm–App weight :400 kg

INDICATIVE FEATURES OF THE MOBILE PALLET RACKING SYSTEM

- 1) Motorized Base Trolley with wheel drive arrangement to move individual racks.
- 2) The structure of the rack to be designed considering adequate factor of safety as per established standards / protocols. The bidders to indicate the protocol followed for the design.
- 3) The mobile pallet rack driving mechanism to have inbuilt power driven system with inbuilt safety and interlocks.
- 4) The motorized gear box shall be driven through variable frequency drive (VFD) with the axle connected through a suitable helical gear drive to achieve smooth start and stop operation without any jerk.
- 5) The mobile pallet racks to have infrared photoelectric sensors for sensing any foreign objects obstructing the passage and provide alarm and stoppage of the movement to avoid any injury to personnel and damage to materials and the racking system.



EPD - BANGALORE

**HEAVY DUTY MOTORISED MOBILE PALLET
RACKING SYSTEM FOR SPV RAW MATERIALS**

**SPECIFICATION NO.
EP-WEX-SPV-RM-00/2016**

CONSTRUCTIONAL FEATURES OF THE MOBILE PALLET RACKING SYSTEM

1. The bidders to provide their detailed construction features of the Mobile Pallet Racking system for purpose indicated.
2. The constructional features to indicate the design protocol followed and shall briefly describe the design principle for the goods indicated for storage.
3. The bidders shall design the mobile pallet racking system for maximizing the storage capacity. The storage capacity may be optimized during the technical evaluation stage of each of the bidder.
4. The structural fabrication for the racking system shall have flexibility in the height of the pallet to be stored for accommodating the pallets with different heights.
5. The structural fabrication shall follow good engineering practice and offer shall indicate the profiles of the structural members and the material adopted for fabrication.
6. The structural fabrication members shall be provided with good anti corrosion treatment and coating. The treatment method and coating adopted shall be described.
7. The brought out components used for the fabrication of the structures and the drive mechanism shall be of industry repute. Bidders to indicate the list of bought out components and the make adopted. BHEL at its discretion will optimize and normalize the make of the bought out components.
8. The Mobile pallet racking system to provide adequate control system. It shall have a mains control unit with individual operating buttons for each of the rack. Emergency stop buttons shall be provided at each of the rack control panel and at main control unit.

NOTE : The indicative and constructional features provided above is for reference only, bidders may provide their better design to enhance the efficiency of the mobile pallet racking system with improved features.

PRE-QUALIFICATION REQUIREMENT FOR THE BIDDERS

1. The bidders shall be an OEM of the Mobile pallet racking system or are their authorized representatives. The authorized representatives shall submit the valid authorization certificate.
2. The bidders should have manufactured and supplied the mobile pallet racking system for similar application and of similar capacity of minimum 2 numbers in the last 3 years. The references of the supplies shall be provided. BHEL at its discretion may verify the credentials thus provided.
3. The bidders shall have service support infrastructure in India

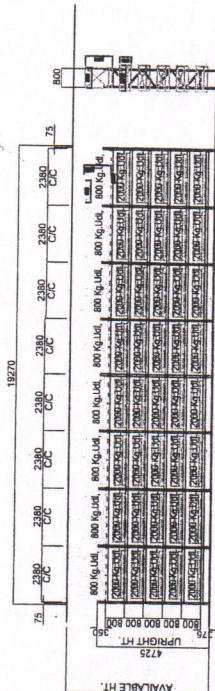
TOTAL STORAGE CAPACITY = 360 PALLETS



END VIEW

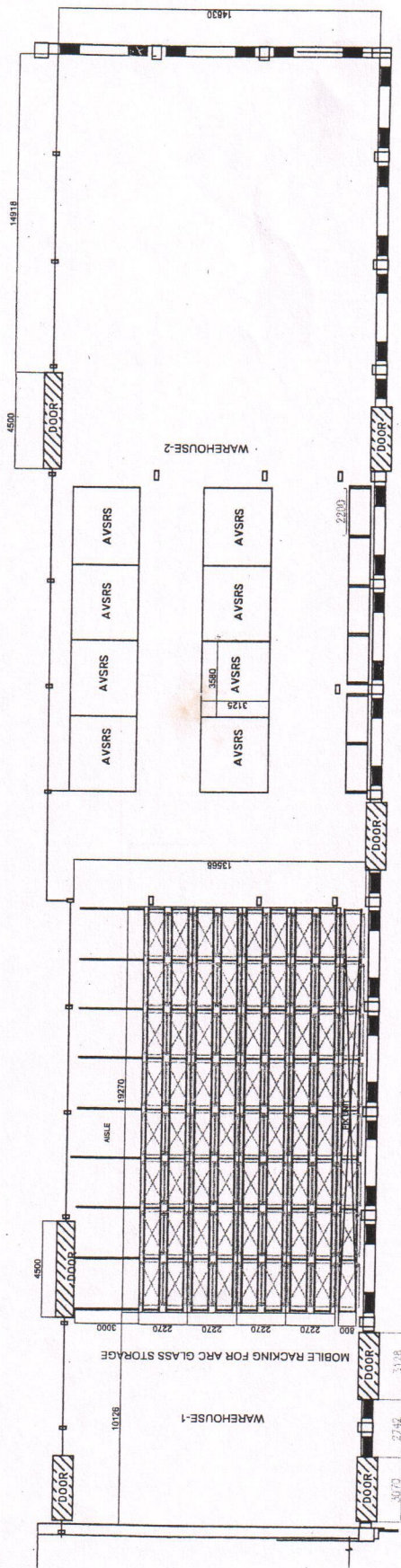


TOTAL STORAGE CAPACITY = 144 PALLETS



ELEVATION FOR FIX UNIT

END VIEW



PLAN

NOTE : FOR INDICATIVE PURPOSE ONLY

BHARAT HEAVY ELECTRONS LTD., ELECTROPEREALMINS DIVISION BANGALORE - 560 012		SCALE		WEIGHT (kg)		REF TO ASSY/DWG		ITEM No.		NO OF ITEMS	
DEPT		CODE				(Approx)					
TITLE		DRAWING No.									
MOBILE RACKING SYSTEM		SPV/RM/100/2018									
FOR RM STORAGE		SHEET No.									
SHEET NO. 01 OF 01		NO OF SHEETS									
SHEET NO. 01 OF 01		SHEET NO. 01 OF 01									
DATE		SIGN									
PRPD		PAINT 'H									
CHD											
APPD											