



**COLD STORAGE FACILITIES  
AT  
HYDERABAD AIR CARGO TERMINAL**



## **EXPORT PHARMA ZONE AT HMACPL**

**INDIA'S FIRST AIRPORT BASED DEDICATED AND TEMPERATURE CONTROLLED STORAGE AND HANDLING FACILITY FOR EXPORT PHARMACEUTICALS**

*Traditional approach of competitive advantage no longer suffice.*

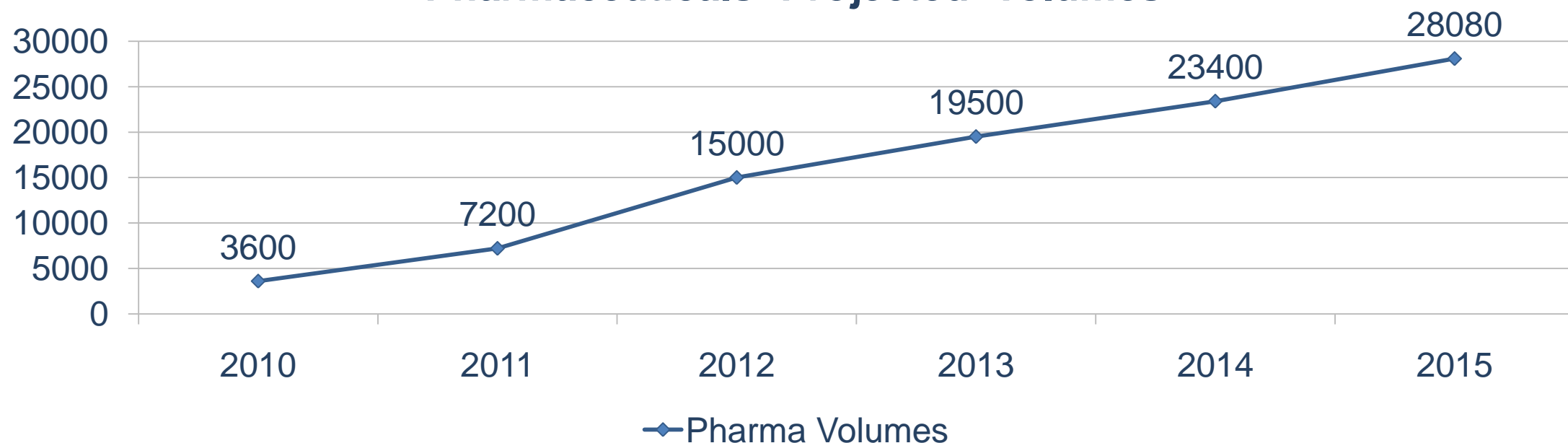
*Quality handling and continuous temperature controlled supply chain for pharmaceuticals are the core requirements of today's customers*



## PHARMACEUTICAL BUSINESS AT HYDERABAD

- Hyderabad is termed as a “PHARMACEUTICAL HUB OF INDIA”
- 70% of exports at Hyderabad constitute pharmaceuticals
- Around 1600-1800 tons of pharmaceuticals are exported every month from Hyderabad
- Currently only 15% of the total pharmaceutical export cargo is moving under temperature controlled handling
- This percentage will increase with the introduction of tighter controls from the international regulatory agencies

### Pharmaceuticals- Projected Volumes



## **NEED FOR PHARMA ZONE AT HYDERABAD**

- Export of temperature controlled pharmaceuticals continues to increase year on year
- Hyderabad Pharmaceutical Industry has tremendous growth potential.
- Majority of the Pharmaceutical products being exported are highly temperature sensitive and high value products
- Temperature controlled handling is must for the pharmaceuticals through out the supply chain
- Exposure to the extreme temperatures can render the drugs less effective, affect their potency thereby causing risk to the product during transportation
- Pharmaceutical products need dedicated handling with out contamination
- Pharmaceutical products should be dealt with dedicated equipment and trained personnel and need specific storage requirements

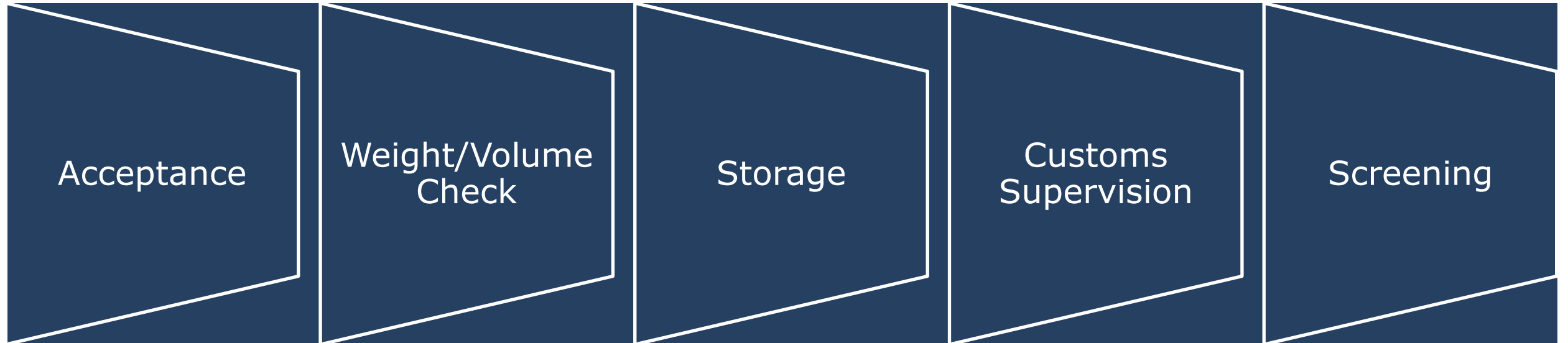
***PHARMA ZONE*** at Hyderabad caters all the above handling requirements and reduces the exposure of the pharmaceuticals to the extreme temperatures

## **About HMA CPL Pharma Zone**

- PHARMA ZONE was created by HMA CPL in 2010 to address the requirements of our customers dealing with Pharmaceutical Exports.
- HMA CPL has created the facility in consultation with the stake holders and invested over 05 crores for the project.
- Facility became fully operational effective 01<sup>st</sup> January 2011
- “Pharma zone” is designed to safely handle only pharmaceutical related time sensitive products such as bulk drugs, raw materials, formulations, medicines, vaccines etc
- Facility consists of +15 to +25 and +2 to +8 degree chambers in both the non-bonded and bonded areas
- Built over an area of 1400 sq. mts and designed to handle more than 30000 tons per annum
- Facility provides quality and dedicated temperature controlled handling for pharmaceutical products under effective hygienic conditions
- Acceptance, weighment, examination and screening is performed under temperature controlled conditions
- Facility also provides temperature controlled storage for unitized airline ULD’s (containers and pallets)
- Dedicated equipment facilitated for handling of Pharmaceutical Products in the Pharma Zone



## Flow chart – Pharma Zone Handling



# Pharma Zone - Photographs



Dedicated Truck Docks



Cargo Acceptance Area



Examination area (+15 to +25 deg)



Examination area (+2 to +8 deg)



Airline Container/Pallet storage area



ULD handling on Ball Matting system

### Truck Dock Area

- 05 dedicated truck docks
- 02 truck dock levelers for multiple vehicle compatibility
- Temperature and humidity sensors
- CCTV surveillance

### Non-Bonded Area

- 05 dedicated truck docks with automated doors and air curtains
- 02 dedicated truck dock levelers
- Customs inspection area spread over an area of 736 Sq Mts with a holding capacity of 180 skids at a time under temperature control +15 to +25 degrees
- Multi Level Racking system in the examination area with additional 126 slots for skids
- Exclusive cold storage with racking system for +2 to +8 degrees cargo
- Temperature recording with FDA approved data loggers

- Ambient temperature and Room temperature display with 12x12 inch display units
- SMS and Alarm alerts to track temperature excursions
- Risk Assessment
- Separate areas earmarked for storage of dangerous goods and small packages
- CCTV surveillance 24/7

### Bonded Area

- Separate +15 to +25 and +2 to +8 degree chambers in the bonded area for storage of Build up ULD's
- ULD weighment facility
- CCTV surveillance 24/7
- Data Loggers
- SMS and Alarm alerts
- Risk Assessment

## Material Handling Equipment - Pharma Zone

- 02 Dedicated X-Ray machines (Capacity – 1200 Kgs, 200 Kgs)

- Electric Stacker – 01

- 03 ton capacity Forklift – 01

- Hand Pallet Trucks – 10

- Multi Level Racking System

- 02 Floor Level Weighing scales (capacity -02 tons, 03 tons)

- Ball Matting system in bonded area which provides 18 Pallet positions in +15 to +25 degree chamber and 6 Pallet positions in +2 to +8 degree chamber



**Ball Matting System**



**Electric Stacker**



**Racking System**



**Dedicated X – Ray Machines**

**Area/Capacity Details -  
PHARMA ZONE**

Category	Area (Sq Mts)	Capacity	Temperature range (Degrees Celsius)
<b>Non – Bonded Area</b>			
Truck Dock	120	-	+15 to +25
Customs Inspection Area	736	20 - 32 tons	+15 to +25
Racking System (In examination area)	50	38 - 60 tons	+15 to +25
Cold Storage (250 cu.mt)	50	24 - 34 tons	+2 to +8
<b>Bonded Area</b>			
Ambient storage - (For build up ULD's)	342	36 - 54 tons	+15 to +25
Cold Storage - (For build up ULD's)	102	12 - 20 tons	+2 to +8
<b>Total</b>	<b>1400</b>	<b>130 - 200 tons</b>	

## **OTHER COLD STORAGE FACILITIES**

**Area/Capacity Statement – Exports temperature controlled facility for cargo other than Pharma products like Fruits and Vegetables/Meat/Sea Foods and other perishables**

Category	Volume (Cu Mt)	Capacity (in tons)	Temperature range (degrees Celsius)
Chamber 1	136	14	+2 to +25
Chamber 2	100	10	+2 to +25
Chamber 3	60	6	+2 to +25

**Area/Capacity Statement - Import Cold Rooms**

Category	Volume (Cu Mt)	Capacity (in tons)	Temperature range Degrees Celsius)
Chamber 1	50	5	0 to -20
Chamber 2	120	13	+2 to +25
Chamber 3	79	7	+2 to +25



***Thank You for your attention***

***Paul Smith***

***Paul.smith@hyderabadmenzies.com***