

**Areas covered under SAP  
( Live from 1<sup>st</sup> December 2009 )**

- Finance and Controlling
- Materials Management
- Document Management System (DMS)
- Project System
- Plant Maintenance
- Sales and Distribution ( All Billing )
- Real Estate
- XI ( For PCS and Customs messages )
- BASIS Activities

**Areas covered under SAP  
( Will Go live from April 2010 )**

- POS
- Human Resources
- Payroll
- Business Intelligence ( BI )

**Important Decisions taken for ERP Implementation**

- Customised Solution or ERP
- Clear Direction for change
- Development of POS under SAP
- Appointment of Consultant
- Freezing Requirement
- Separate tender for ERP licenses,
- System Integrator, Hardware and LAN

### **Important Decisions taken for ERP Implementation**

- Appointment of Full time Core Team Group
- Keeping this team ready for ERP
- Infrastructure availability for Core team
- Decision regarding developing reports internally
- Confirming whether these requirement is available in ERP solutions
- Training of CTMs in SAP

### **Important Decisions taken for ERP Implementation**

- Availability of Hardware, Network and Data Center at appropriate time
- Basic Computer training for end users
- Lead by Top Management
- Review meetings of Steering Committee
- Change Management team
- Master Data Team

### **Benefits of SAP implementation**

- All the transaction of MM and Finance and Billing electronically
- All the payments electronically
- PCS and Customs messages through SAP
- Better Control of Projects
- Moving towards paperless office
- Integration of all the Port activities
- Consistent and timely reporting at all the levels

## BIOMETRIC ATTENDANCE CONTROL SYSTEM

As per Ministry and IPA guidelines, Mormugao Port Trust has created our web based portal. We have registered all regular employees by feeding the data. On a trial basis 2 Nos Aadhar Base Biometric Readers have been procured and installed, one in Administrative Building and one at MM Building.

### RFID system

1. RFID enabled Harbour permit for the crew of the trucks
2. Integration of weighbridge data along with IN and OUT capture
3. IN and OUT movement of Port Employees and their vehicles at all 3 gates Gates.
4. Integration with cameras to display driver image
5. Integration of data from our system into any legacy system including SAP through data migration

### Solutions required by the port:

- Speeding up process time and faster movement of trucks and vehicles at the port gates.
- Reducing the leakage of the revenue.
- Entry of only authorized trucks and crew and Monitoring the truck and crew movement inside the port, thereby increasing Port security levels.
- Automation of business processes, e.g. entry fee collection, data capture, etc. at various points.
- Availability of customized reports ( wise, weekly, fortnightly, monthly and yearly ) based on persons and vehicle entry and exit data.
- Availability of real time data on vehicles/personnel entering, that are inside the Port and that have exited the Port.
- Alerts in the event of un-authorized activities (example: vehicle parking beyond allowed duration, etc.)

Bill of Quantities at present:

1. RFID Integrated Readers, with read range of 7-15 metres from ALIEN, USA, – 7 nos (Gate 1- 2nos, Gate 2 – 2 nos, Gate 9- 2 nos, spare -1), Weighbridge – 2 nos
2. All readers are for Outdoor use and meet US MIL standards
3. RFID windscreen tags from one of the reputed brands like SmarTrac (Germany) / Alien (USA) /OMNI ID (USA)or WaveLinxx (USA) with raed range of 7-15 metres. All tags are tamper proof, all weather certified
4. Cameras – LG LNU 7210, 60 fps, day – night, outdoor cameras at all gates – 6 nos, integrated with the RFID readers through GPIO switch
5. Integration with boom barrier at all gates- 4 nos boom barriers
6. RFID handheld Reader – ALIEN 9011 (USA) for use by CISF personnel for random check of vehicles
7. RFID desktop readers for registration of tags at AO Building(IHEP) and Gate 9- 3 nos
8. Application Software developed on Windows and SQL servers for Registration, Tracking, Reporting including tolling of entry fees, remote online permit system, reporting systems, GSM alerting