Port Data Management Portal (PDMP)
www.data.shipmin.nic.in

Ministry of Shipping
Need of PDMP

- In the 16th Maritime States Development Council (MSDC) held in Goa in August, 2015

- One of the Agenda was “Collection of Monthly data from Major as well as Non-Major Ports”

- Action taken: Hon’ble Minister suggested to develop a software for major and non-major ports so that data can be updated online by both Major and non-major Ports monthly.
About Transport Research Wing

- Collects, compiles and disseminates time series data for Ports, Shipping, Ship Building & Ship Repairing and Inland Water Transport
- Responsible for rendering necessary research and data support to the various wings of the Ministry of Shipping for policy planning
- Data collected manually from sources:
  - Major Ports
  - State Maritime Boards
  - DG Shipping
  - Inland Waterways
- The data is compiled and published for different wings/stakeholders
- Monthly, Quarterly & Yearly analysis of Cargo Traffic
Status of Data collection

- 217 ports: 12 Major Ports and 205 Non-major ports ([Tab1.2.XLS](#))
- Data is collected by Transport Research Wing of Ministry of Shipping
- Collected as per defined formats and frequency (Monthly, Quarterly, Half Yearly, Yearly)
- Data is collected on: ([Proforma for data collection.pdf](#))
  - Cargo Traffic handled - category-wise & flag wise (Monthly, Half yearly and Annually)
  - Cargo Traffic handled- Group wise (Monthly)
  - Physical Performance Vessel wise (Monthly)
Contd…

- Preparation of Technical & analytical papers
  - Container Transshipment
  - Coastal Container Traffic
  - Annual Passenger Traffic
  - Employment Details
  - Number of Berths and Drafts
  - Equipment Availability
  - Sailing Vessels Data
  - Financial status
  - Port capacity
Current Data Collection mechanism

Data Collection Mechanism

- Currently the data is collected manually in paper form
- All major ports & state maritime boards forwards the data as per the defined format in excel/hardcopy via email/post
- Data is compiled manually by using tools like Excel
- The reports are disseminated in paper form
- No alerts if data not submitted in time
- Some time same data repeated due to non response from the Ports
Challenges & Issues

- Delay in receiving data from ports
- Duplication of effort in the case of non-major ports – Ports forward data to maritime board who further compile and forward to Ministry
- Manual compilation of data resulting in errors & delays
- Limited processing and Reporting capabilities
- No Role based access to reports / data for stakeholders
- Generation of comparative reports & ad-hoc reports are difficult as data is not in database system
- No process of verification and up-dation of data
Objectives of Port Data Management Portal

- Facilitate 24*7 data entry
- Verification by officer before final submission
- Standardized data collection as per defined format
- MIS Reports for Ports, Maritime Board and Ministry of Shipping
- Role based access to users for data entry, verification, alerts and reports
- Email based alerts
- Reports in multiple Formats (PDF & Excel)
- Dashboard
- Centralized Database for further analysis
User Roles defined in PDMP

- Super Admin
- Ministry Nodal Officer
- Administrator
- Port Nodal Officer
- Maritime Board Nodal Officer
- Port Manager
- Port Data Entry Officer

(A Role can be assigned to multiple users)
Data Entry Workflow

1. Ministry Administrator creates tables with parameters & frequency.
2. Port Manager reviews the table and selects desired applicable commodities/values.
3. Port Data Entry Officer enters data as per the specified table.
4. Manager reviews the data, changes if required & approves.
5. Port Data Entry Officer submits the data for review & approval by Manager.
6. Reports available to users for analysis & reporting.
Role-wise Functionalities

Super Admin

- Creation & Management of Management Users from Ministry (Nodal Officers and Administrator)
- Creation and Management of States, cities organizations.
- Creation and Management of Roles
- Management of roles and permissions of various users
- Management of all users
- Management of the application like taking backups, viewing logs, management of administrator credentials etc
Role-wise Functionalities

Ministry Nodal Officer

- Creation & management of Major Port and Major Port Nodal officer
- Creation & Management of Maritime Board and Maritime Board Nodal Officer
- Creation and Management of all masters –Category wise Commodity, Group wise Commodity, Physical Performance indicators, Berth Types, Container Transshipment, Coastal Container
- Creation of Data Table types, Table frequency, Commodity List Creation for M1, H1 and A1.
- Viewing of Dashboard and reports (all levels)
- Table-wise Report on delay in receiving data
- Email message to Major Port/Maritime Board Nodal Officers
- Alerts to ports on delay in receiving data after specific date
Role-wise Functionalities

Administrator

- Viewing of Dashboard
- Viewing Reports of all Major Ports and State Maritime Boards
Role-wise Functionalities

Nodal officer - Major Port /State Maritime Board

- Creation & Management of all ports in case of State Maritime Board
- Creation & Management of Port Manager and Port Data Entry Officer for each port
- Viewing of all reports at Major port level/Maritime Board Level
- Parameter based reports
- Dashboard – Status of Approved data
- Alerts to Port Data Entry Officers & Port Managers
Role-wise Functionalities

**Port Manager**

- Create List of commodities available at their port against the list created by Ministry Nodal officer
- Dash Board – Status of Approval awaited data and approved Data
- View, Verify, change/update data if required and View Data Entered by the submit for publishing/approval
- Alert to Data Entry officer on Status of the data
Role-wise Functionalities

Port Data Entry Officer

- Enter Data in the various formats available
- Dash Board – status of Drafted data, approval awaited data and approved Data
- View and Modify Drafted Data till submission for approval
- Alert to Port Manager on Submission of the data for approval
General Functionalities

- User & Role Management
- Role based access to reports & data
- Validations
- Dashboard & MIS Module
- Reports
- Email based alerts
- Audit log
Tables for data capture

- Cargo Traffic handled - category-wise-flag wise (Monthly (M1), Half yearly (H1) and Annually (A1))
- Cargo Traffic handled – Group wise (Monthly)
- Vessel wise Physical Performance of Major/non-major ports
- Transshipment of Containers
- Coastal Containers traffic
- Annual Passenger Traffic
- Employment Details
- Number of Berths & drafts
- Equipment Availability
- Sailing Vessels Data
Benefits to the users

- Deployed on NIC Cloud & accessible over Internet
- Only Desktop PC with Internet connectivity required
- 24 x 7 availability & accessibility from anywhere
- Easy-to-use User interface
- Customizable interface to facilitate faster data entry
- Verification of data before final submission
- Reports using different combinations
- Secure as only authorized users can access the data
- Real time visibility across ports, maritime boards and Ministry of Shipping
- Comparative analysis of data
- Once captured data in database system, can be used for further analysis as per requirement
Expectations from Ports & Maritime Boards

- Timely entry of data
- Verify data before submission
- Use system for reporting requirements
- Provide reporting requirements at their level
- Mechanism currently used for compilation of data
- Current level of automation of processes
- Provide feedback/suggestions
Feedback and any addition/ modification from Port Officers
State Maritime Board Nodal Officer

- Dashboard (View Approved data)
- View/Add all ports under the Maritime Board
- View/Add Port Managers
- View/Add Port Data Entry Officers
- Reports: View submitted Data
- Edit Profile
- Change Password
Dashboard
- Approval awaited Data
- Approved data

Commodity List Creation
- M1 H1 A1

Data View/Edit/Approve
- M1, H1 and A1 ---commodity Category wise flag wise
- Physical Performance-Vessel wise
- Commodity Group wise
- Container Transhipment
- Coastal Container Traffic
- Annual Passenger Traffic
- Employment Details
- Sailing Vessels Data
- No of Berths and Drafts
Dashboard

- Drafted Data
- Approval awaited Data
- Approved data

Data Entry Menu

- M1, H1 and A1 ---commodity Category wise flag wise
- Physical Performance-Vessel wise
- Commodity Group wise
- Container Transhipment
- Coastal Container Traffic
- Annual Passenger Traffic
- Employment Details
- Sailing Vessels Data
- No of Berths and Drafts
THANK YOU