

Reward Points Management System(RPMS)

About Project

This project aims at building a **Reward Points Management System** for contract labor employees of National Mineral Development Corporation that aims to automate the work of the manual coupon system.

Project Scope

NMDC is providing coupons weekly/monthly to contact labor employees based on their attendance. The contract employees who will get these coupons can be redeemed their coupons at co-operative stores of NMDC for provisional items they purchase from the store. For years, the department has worked on paper, i.e., they have to issue coupons in paper mode which takes a lot of time to issue these coupons, redeem these coupons and maintain records manually. This manual system can be misused by contract labors by giving their coupons to others to redeem and paper based coupons can be lost/forgot/damaged.

To automate such a process and to save a lot of time of the employees, **Reward Points**Management System gives them a way to issue coupons from their office system in digital format.

Contract labor employee also redeem their coupons easily at stores digitally without worrying about physical loss/damage/misuse of coupons

Objectives

- > A data store for user information
- Web site supporting functionalities like Search/sort/add/delete/view/modify etc on user information
- Modules for reward point allocation
- Facility to detect fraud/duplicate users
- Generate report on number of users using the Reward Points Management System in a month, their responses.

Existing System:

In the existing system, coupons are issued manually to the contract labor

- > All the details of the records are maintained manually
- > Takes a lot of time to issue coupons manually
- Manual coupons can be lost/forgot/damaged.
- Misusing of coupons by giving to others for use
- Less security
- Loss of data may happen sometimes

Proposed System:

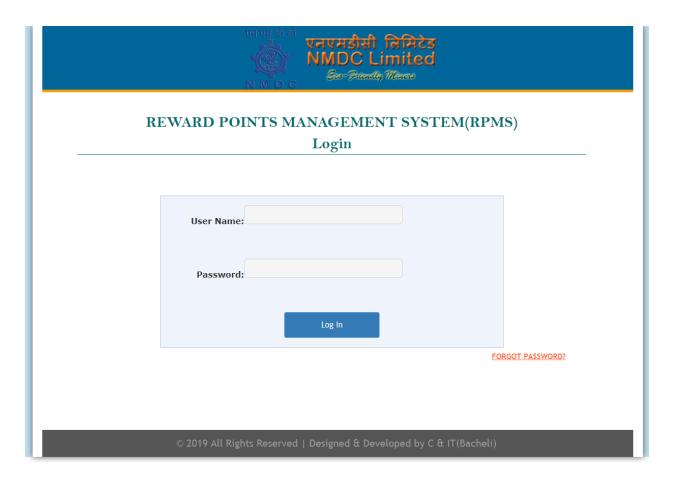
- The proposed system maintains the information in the database.
- All the details of the records are maintained digitally.
- This system provides high-security.
- Misusing of coupons can be restricted.
- Manual work to issue coupons and redeem coupons can be avoided.

Depending on the roles, system will be divided into 4 main modules

- Administrative Module
- > Relationship Officer Module
- > Store Manager Module
- > Finance Manager Module
- CMC Manager Module
- Reporting Module
- 1. Administrative Module should allow administrators to
 - Create users/roles/departments/stores
 - ➤ View users/roles/departments/stores
 - ➤ Delete users/roles/departments/stores
 - ➤ Add/Update Application settings
 - > provide role based access
 - ➤ Add /Update Notifications
 - Generate different reports like Contract labor report, Reward Points report, Claims Transaction History Report etc
- 2. Relationship Officer Module should allow Relationship Officers to
 - ➤ View list of contract labor
 - ➤ View contractor details
 - ➤ View work order details
 - > Assign reward points to the contract labor employees based on their attendance
 - ➤ View Notifications sent by Admin
 - > Send /Receive messages to/from other RPMS users
 - ➤ Delete/Inactive employees etc
 - ➤ Generate different reports like Contract labor report, Reward Points report, Claims Transaction History Report, Monthly labor report etc
- 3. Store Manager Detail's module should allow to
 - > View the list of contract labor
 - View details of a customer and reward usage history on click on customer name/id
 - > Search contract labor on different fields
 - > Check the Reward point's status

- ➤ Before redeeming of coupons, check if the user is a valid employee
- > Claim reward points of contract labor employees
- > View Notifications sent by Admin
- > Send /Receive messages to/from other RPMS users
- Generate Month end report to submit to finance department along with their bills
- 4. Finance Manager Module should allow to
 - > View the list of contract labor details
 - > View details of contract labor reward points
 - > View Notifications sent by Admin
 - ➤ Send /Receive messages to/from other RPMS users
 - > Generate Month end report to pay the bills to co operative store by cross verifying with their transaction history report
- 5. CMC (Contract Management Cell) Manager Module should allow to
 - ➤ Add/Update/View the list of contract labor details
 - > Add/Update/View the contractor details
 - > Add/Update/View Work order details
 - View details of contract labor reward points
 - > View the attendance of contract labor work order wise
 - > View Notifications sent by Admin
 - > Send /Receive messages to/from other RPMS users
 - Generate different reports like Contract labor report, Reward Points report, Claims Transaction History Report, Monthly labor deployment skill wise report, Monthly labor deployment report contractor wise etc
- 6. Reporting module allow admin/Relationship Officer/Store Manager to view reports like
 - > Contract labor details report
 - > Reward points report
 - > Claims transaction history report
 - > Monthly labor deployment skill wise report
 - > Monthly labor deployment contractor wise report
 - > Finance month end report
 - > Co operative store month end report
 - > Graphs for Active/Inactive users (users who did not use the reward system for a period of a month and more)
 - ➤ Graphs for comparison b/w assigned reward points and claimed reward points by month wise in current year
 - > Graph for b/w assigned reward points and claimed reward points for current month

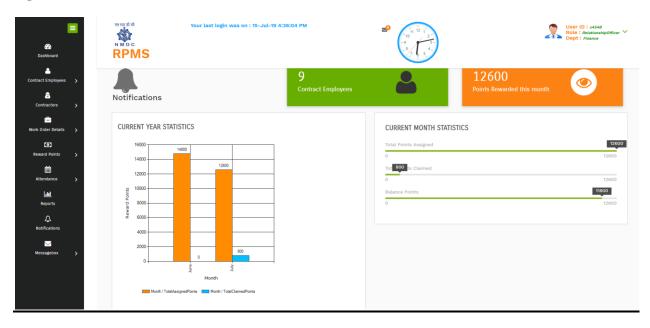
Login Page:



- > Enter Your Provided Username and Password and Click on Login button.
- > If your login credentials are correct you will be redirected to corresponding Dashboard page based on your Role.
- > If entered login credentials are incorrect ,you will get an error message like "Username / Password are not correct".
- > If you forgot your password, Click on forgot password link to reset your password.

Relationship Officer Module:

1)Dashboard:



| LabourName | FatherName | UAN | Earned Points | Month | Year |
|------------------------|--------------------------|--------------|------------------|-------|------|
| Ravi Markam | Ramchandra Markam | 101424230936 | 1800 | July | 2019 |
| Thomas Deniel | P. Daniel | 101399187660 | 1700 | July | 2019 |
| Vandana Tiwari | S.R. Tiwari | 101234785062 | 1600 | July | 2019 |
| Pravesh Kumar Joshi | Lt. C.D. Joshi | 101234785043 | 1500 | July | 2019 |
| Leman Singh | Daleshwar Prasad Sahu | 101234785015 | 1400 | July | 2019 |
| Gaurav Das | Lt. G.C. Das | 101282927118 | 1300 | July | 2019 |
| Sagar Kumar Singh | Mulayam Singh | 101234785036 | 1200 | July | 2019 |
| Shankar Ram Sahu | Maya Ram Sahu | 101234785027 | 1100 | July | 2019 |
| Braj Gopal Karmakar | Anil Chandra Karmakar | 101234785004 | 1000 | July | 2019 |

| CURRENT MONTH - TOP 10 REWARD POINTS SPENDERS | | | | | |
|---|--------------------------|--------------|-------------------|-------|------|
| LabourName | FatherName | UAN | Claimed Points | Month | Year |
| Ravi Markam | Ramchandra Markam | 101424230936 | 800 | July | 2019 |
| Braj Gopal Karmakar | Anil Chandra Karmakar | 101234785004 | 0 | July | 2019 |
| Shankar Ram Sahu | Maya Ram Sahu | 101234785027 | 0 | July | 2019 |
| Sagar Kumar Singh | Mulayam Singh | 101234785036 | 0 | July | 2019 |
| Gaurav Das | Lt. G.C. Das | 101282927118 | 0 | July | 2019 |
| Leman Singh | Daleshwar Prasad Sahu | 101234785015 | 0 | July | 2019 |
| Pravesh Kumar Joshi | Lt. C.D. Joshi | 101234785043 | 0 | July | 2019 |
| Vandana Tiwari | S.R. Tiwari | 101234785062 | 0 | July | 2019 |
| Thomas Deniel | P. Daniel | 101399187660 | 0 | July | 2019 |
| | | | | | |

| RACT LABOR STATIST | IICS |
|--------------------|------|
| nance | 9 |
| Category Wise | |
| General | 6 |
| OBC | 2 |
| SC | 0 |
| ST | 1 |
| Others | 0 |
| Gender Wise | |
| Male | 8 |
| Female | 1 |
| Skill Wise | |
| Unskilled | 1 |
| Semi Skilled | 0 |
| Skilled | 8 |
| Highly Skilled | 0 |

- > After successful login, you will be redirected to Relationship Officer/Dashboard page.
- > You can see your last login details on top middle of the page, Your Username, Role, Department on right top corner.

Notifications:

You can view scrolling notifications which will be sent by Administrator regarding RPMS.

Contract Labor :

You can see number of contract labor working in your department in green color rectangle box.

Reward Points:

You can see rewarded Total Reward Points of your department for current month.

> Current Year Statistics:

In vertical bar graph, you can compare month wise total rewarded points and total claimed points of your department. Orange color bar represents total reward points and Blue color bar represents total claimed points.

Current Month Statistics:

In horizontal bar graph, you can compare current month total rewarded points, total claimed points and balance points of your department. First row represents total reward points assigned and second row represents total claimed points and third row represents balance points which are not claimed yet.

Current Month Top 10 Reward Points Earners :

You can see top 10 reward point's earners of your department in descending order of assigned reward points with their Name, Father Name, AadharNumber, Month, and Year.

Current Month Top 10 Reward Points Spenders :

You can see top 10 reward point's spenders of your department in descending order of claimed reward points with their Name, Father Name, AadharNumber, Month, and Year.

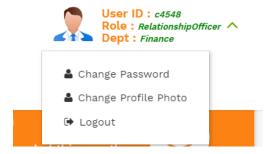
Contract Labor Statistics :

You can see contract labor statistics like Category wise, Gender wise, and Skill wise Number of labor working in organization.

> Application Statistics :

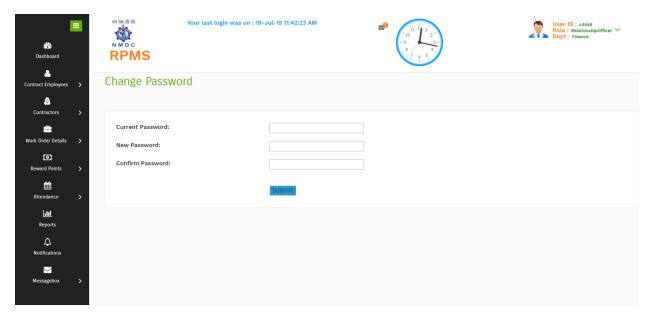
You can see application statistics like Application users information (No of Admins,No of CMC Managers, No of Finance Managers ,No of Relationship officers, No of store managers registered), Departments, Designations, Roles present in this application.

Top Right side Corner you can see down arrow mark, if you click on that you can see three options like Change password, Change profile photo and Logout.



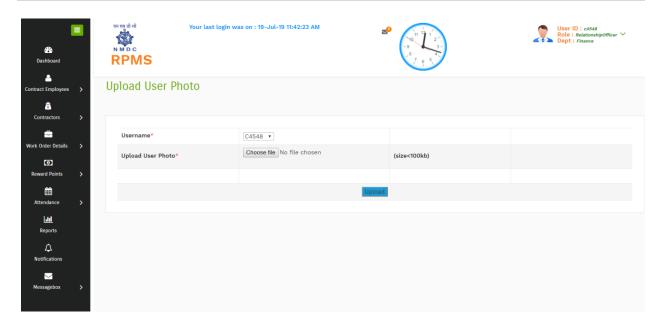
Change Password:

In this section, you can change your current password with new password.



Change Profile Photo:

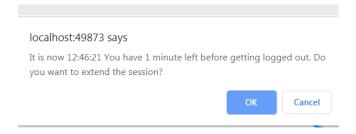
In this section, you can change your current profile photo with new photo.



Logout:

If you click on logout your current session will be closed and you will be redirected to login page.

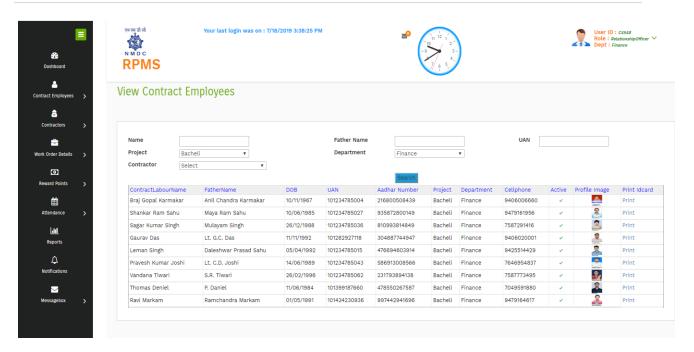
Session time out time of application is 20 mins. If you are inactive for more than 20 mins, you will get alert message at one minute before session expiry time and if you click continue session you session will be reactivated for another 20 mins otherwise you session will be closed and redirected to login page.



2)Contract Employees:

View Contract Employees:

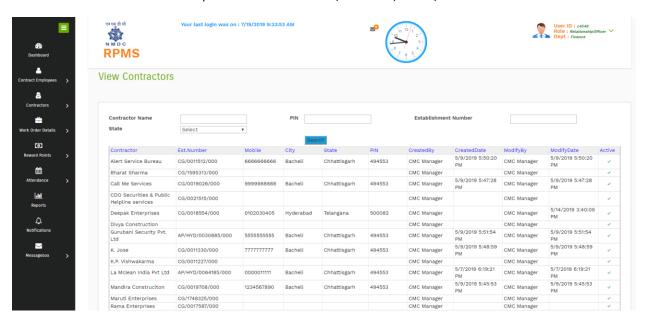
In this section, you can see contract labor details with their photo who are working in your department. You can search contract labor with parameters like Name, Fathername, Aadhar Number, Project, Department, and Contractor.



3)Contractors:

View Contractors:

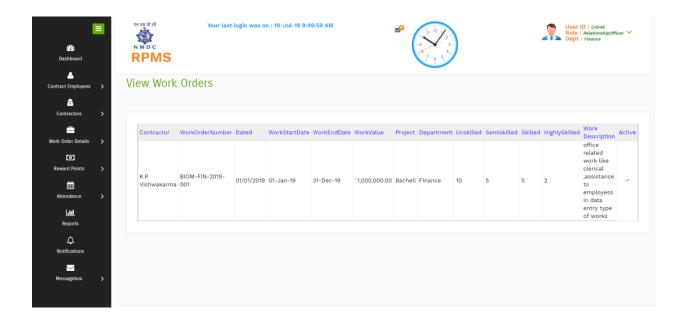
In this section, you can see contractor's details who are working for your department. You can search contractor's details with parameters like Name, PF Code, State, and PIN.



4)Work Orders:

View Work Orders:

In this section, you can see work order details which are assigned to your department. You can details Contractor, Work order number, Work start date, end date, work value, work description, Approved unskilled, skilled, semi skilled, high skilled labor.



5) Reward Points:

Assign Reward Points:



In this section, you can assign Reward points to contract labor of your department based on their man days in previous month. You can see list with contract labor details and work orders of your

department under each labor. You need to enter man days in provided textbox for corresponding work order.

Example: There are two work orders for mining department

| 1) BIOM/BC/SP5/CMC/OTE/2018-19/SP- 002/WO-410/1862 | Man power assistance for cleaning of spilled ore in D/H and screening Plant-05 |
|---|--|
| 2) BIOM/BC/SP5/CMC/OTE/2018-19/SP- 003/WO-413/1863 | Man power assistance for cleaning of spilled ore in TCP,NP system and fine ore reclamation(FOR) at S/P-5 |

If a contract labor(Basudev Biswas, Aadhar Number 567515719124) works for

First work order (BIOM/BC/SP5/CMC/OTE/2018-19/SP-002/WO-410/1862), for 10 days

Second work order (BIOM/BC/SP5/CMC/OTE/2018-19/SP-003/WO-413/1863) for 8 days,

You need to enter 10 man days against corresponding first work order and 8 man days against second work order. Likewise you need to enter all labor man days.

Finally after entering all labor man days you need to click save to store this data into database.

Note: this is only one time activity. You can edit or modify this data further. So be careful while doing this. Based on your man days entries reward points will be assigned automatically by multiplying Man days with approved points per day attendance.

Total Man days for Basudev Biswas is 18 days.

As per current rate, for one day of attendance contract labor will get 80 points (i.e. Rs.80 worth).

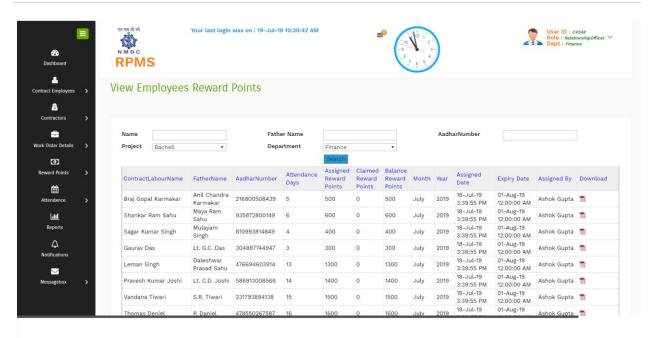
Hence Total Reward points for this person is = 18 * 80 = 1440.

After saving all the information, you will get message like

Contract labour Attendance and Reward points for this month July 2019 already have been assigned. Click here to view.

View Reward Points:

In this section, you can view Reward points assigned to contract labor of your department.









REWARD POINTS ASSIGNMENT FORM

Finance

Ashok Gupta

PERSONAL DETAILS:

 Aadhar Number
 935872800149

 First Name
 Shankar Ram Sahu

 Last Name
 Maya Ram Sahu

 UAN
 101234785027

 Mobile
 9479161956

 Project
 Bacheli

REWARD POINTS DETAILS:

Department

Assigned By

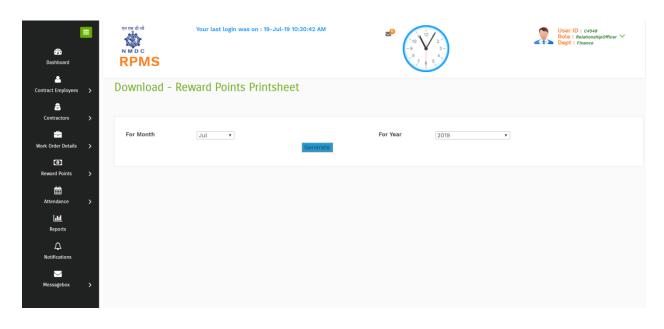
AttendanceDays 6 Assigned Reward Points 600 Claimed Reward Points 0 Balance Reward Points 600 For Month July For Year 2019 Assigned Date 18-Jul-19 3:39:55 PM Expiry Date 01-Aug-19 12:00:00 AM

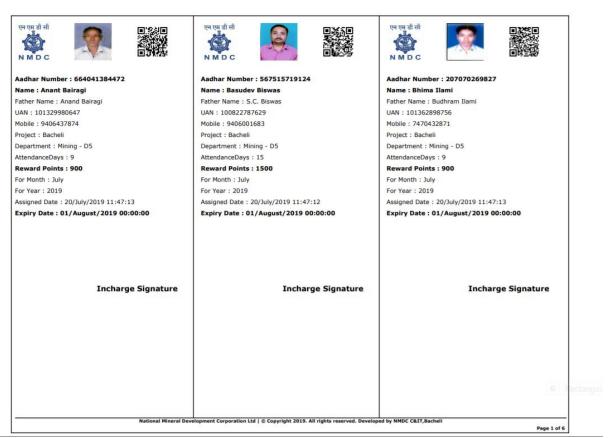
CLAIMED POINTS TRANSACTION HISTORY:

No Claimed Transactions found

Download Reward Points Print Sheet:

You can download Reward points print sheet by selecting month and year.





- You will get all labor reward points sheets in one document. You have to tear each individual sheet get it signed by Department incharge and distribute to them.
- This will be their Reward point's document with all information which they have to present at Co operative store to claim their Reward points.
- You have to instruct them to keep this document safe for one month hence without this contract labor cannot claim their points.
- Awarded Reward points are valid for one month only. Reward points will be automatically invalid after last day of that month.
 Eg: for July 2019 month reward points will be valid till 31st July 2019, 23:59:59.

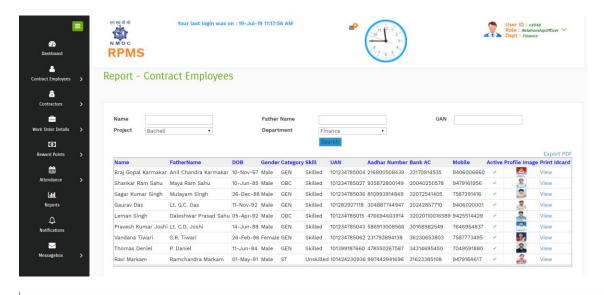
6) Attendance:

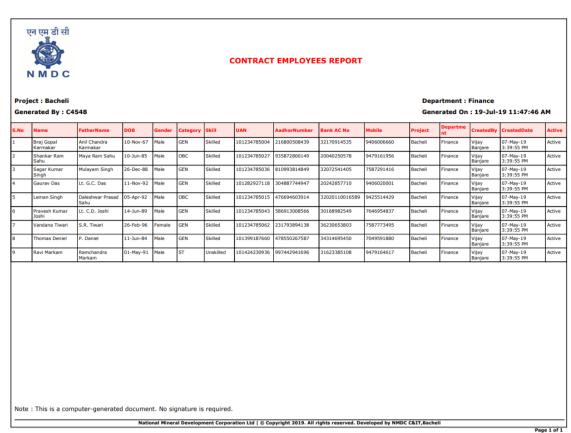
In this section, you can view work order wise monthly attendance of contract labor of your department.



6) Reports:

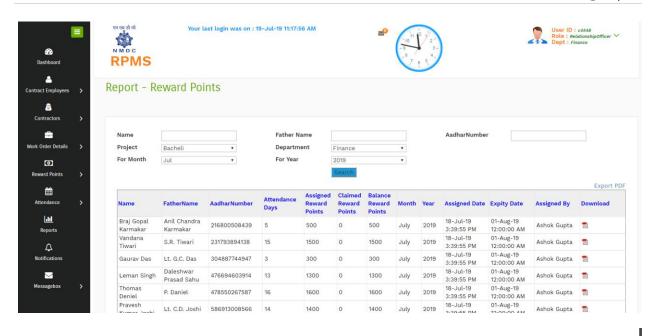
Report Contract Employees: In this report, you can view contract labor details of your department.

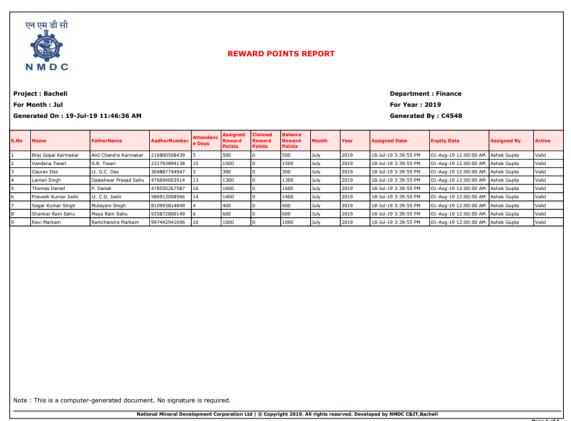




Report Reward Points:

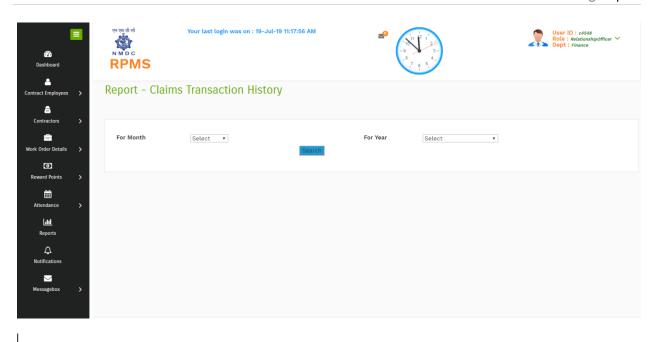
In this report, you can view Reward point's details of contract labor details of your department.

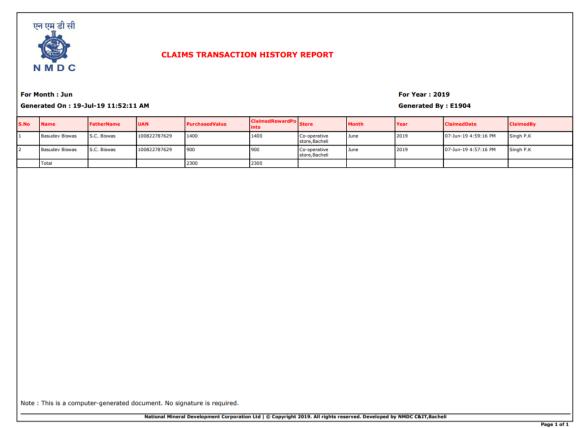




Report Claims Transaction History:

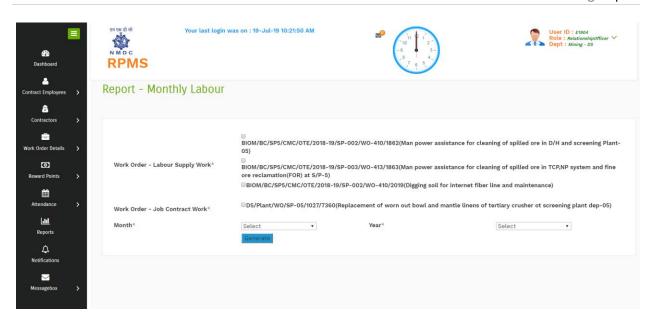
In this report, you can view Reward point's Claimed by contract labor of your department at Co operative store.

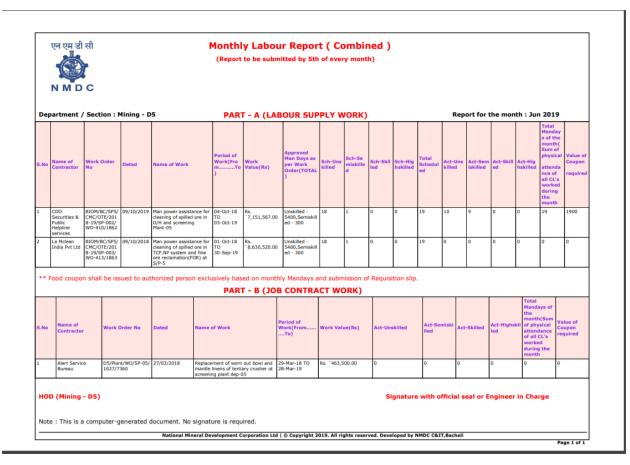




Report - Monthly Labor:

In this report, you can generate monthly labor report of your department which consists work order details with labor deployed for each work order by skill wise.

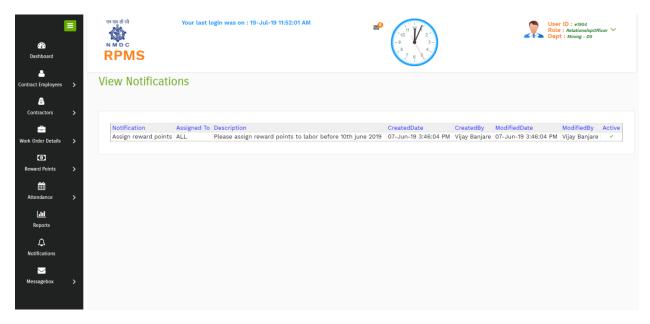




6) Notifications:

View Notifications:

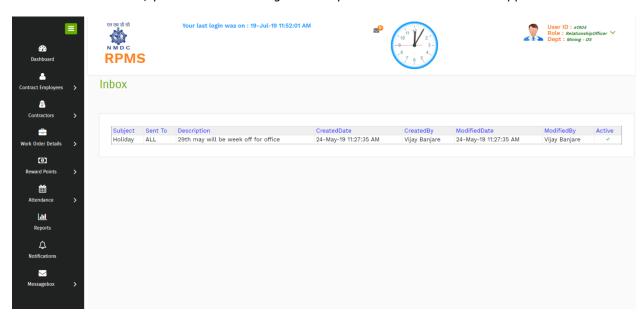
In this section, you can view notification messages which will be sent by admin.



6) Message Box:

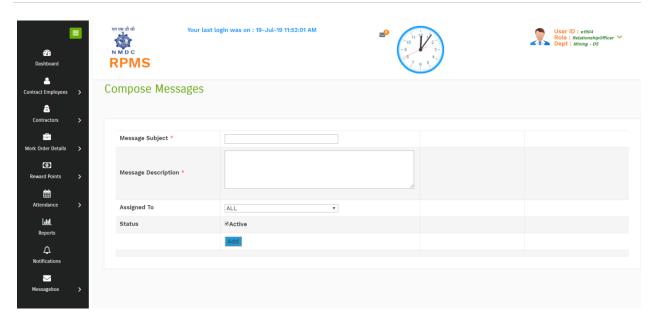
Inbox:

In this section, you can view messages sent by other users of this RPMS application.



Compose Message:

In this section, you can send messages to other users of this RPMS application.



Sent Items:

In this section, you can view messages which are sent by you to other users of this RPMS application.

