



# NREGA PROGRAM

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## AGENDA

- Introduction
- Dataset Overview
- Data cleaning and Transformation
- Dashboards
- Insights
- Conclusion

A scenic landscape featuring a dirt road that curves through a green field. On the right side of the road, there are several large, leafy trees. The sky is filled with dramatic, dark clouds, with a bright light source breaking through near the horizon. The entire scene is framed by a thin green border.

# INTRODUCTION



# Introduction to **NREGA**

The **Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)**, commonly known as **NREGA**, is a social security measure and labor law in India aimed at guaranteeing the 'right to work'. Enacted in 2005, the program's primary objective is to enhance the livelihood security of rural households by providing at least 100 days of wage employment in a financial year to every household whose adult members volunteer to do unskilled manual work.





# Key Features of NREGA

**1. Employment Guarantee:** NREGA legally guarantees 100 days of wage employment to every rural household whose adult members are willing to do unskilled manual labor.

**2. Inclusive Approach:** The program focuses on women, SCs (Scheduled Castes), STs (Scheduled Tribes), and other marginalized groups to ensure their participation and empowerment.

**3. Local Development:** The works undertaken are aimed at creating durable assets in rural areas, including water conservation, land development, rural connectivity, and other infrastructure projects that directly benefit the community.

**4. Transparency and Accountability:** NREGA mandates transparency and accountability in the implementation of the scheme through social audits, public disclosure of information, and grievance redressal mechanisms.

**5. Decentralized Planning:** The planning and implementation of projects are decentralized, empowering local governing bodies (Gram Panchayats) to identify and execute works based on local needs.



A scenic landscape of rolling green hills under a cloudy sky. The hills are covered in lush green grass and small trees. The sky is filled with soft, white clouds. The text "DATASET OVERVIEW" is overlaid in a white box in the center of the image.

# **DATASET OVERVIEW**



The dataset consists of the following variables:

- **State name:** Name of the Indian state.
- **district name:** Name of the district within the state.
- **Total No. of Job Cards issued:** The total number of job cards issued to rural households.
- **Total No. of Workers:** The total number of workers registered under NREGA.
- **Total No. of Active Job Cards:** The number of active job cards at a given point in time.
- **Total No. of Active Workers:** The number of workers currently engaged in NREGA works.
- **SC workers against active workers:** The count of Scheduled Caste workers among active workers.
- **ST workers against active workers:** The count of Scheduled Tribe workers among active workers.
- **Approved Labor Budget:** The budget allocated for labor under NREGA.
- **Person days of Central Liability so far:** The total person days of employment provided, considering central liability.
- **SC person days:** Person days of employment provided to Scheduled Caste workers.
- **ST person days:** Person days of employment provided to Scheduled Tribe workers.
- **Women Person days:** Person days of employment provided to women.
- **Average days of employment provided per Household:** The average number of days of employment provided per rural household.

The dataset consists of the following variables:

- **Average Wage rate per day per person(Rs.):** The average daily wage rate per NREGA worker in Indian Rupees.
- **Total No of HHs completed 100 Days of Wage Employment:** The number of households completing 100 days of wage employment.
- **Total Households Worked:** The total number of households involved in NREGA works.
- **Total Individuals Worked:** The total number of individuals engaged in NREGA works.
- **Differently abled persons worked:** The count of differently abled persons who participated in NREGA works.
- **Number of GPs with NIL exp:** The number of Gram Panchayats with zero expenditure.
- **Total No. of Works Taken up (New + Spill Over):** The total number of works initiated, including new projects and spill-over from previous periods.
- **Number of Ongoing Works:** The count of works that are currently in progress.
- **Number of Completed Works:** The count of works that have been successfully completed.
- **% of NRM Expenditure(Public + Individual):** The percentage of expenditure on Natural Resource Management (NRM) projects, including both public and individual contributions.
- **% of Category B Works:** The percentage of expenditure on Category B works.
- **% of Expenditure on Agriculture & Agriculture Allied Works:** The percentage of expenditure on agriculture and allied activities.
- **Total Exp(Rs. in Lakhs.):** Total expenditure in Indian Rupees (in lakhs). • **Wages(Rs. In Lakhs):** Expenditure on wages in Indian Rupees (in lakhs).
- **Material and skilled Wages(Rs. In Lakhs):** Expenditure on materials and skilled wages in Indian Rupees (in lakhs).
- **Total Adm Expenditure (Rs. in Lakhs):** Total administrative expenditure in Indian Rupees (in lakhs).





# **DATA CLEANING AND TRANSFORMATION**



NREGA	
<input type="checkbox"/>	$\Sigma$ % of Category B Works
<input type="checkbox"/>	$\Sigma$ % of Expenditure on Agriculture & Agriculture Allied Works
<input type="checkbox"/>	$\Sigma$ % of NRM Expenditure(Public + Individual)
<input type="checkbox"/>	$\Sigma$ Approved Labour Budget
<input type="checkbox"/>	$\Sigma$ Average days of employment provided per Household
<input type="checkbox"/>	$\Sigma$ Average Wage rate per day per person(Rs.)
<input type="checkbox"/>	$\Sigma$ Differently abled persons worked
<input type="checkbox"/>	district_name
<input type="checkbox"/>	$\Sigma$ Material and skilled Wages(Rs. In Lakhs)
<input type="checkbox"/>	$\Sigma$ Number of Completed Works
<input type="checkbox"/>	$\Sigma$ Number of GPs with NIL exp
<input type="checkbox"/>	$\Sigma$ Number of Ongoing Works
<input type="checkbox"/>	$\Sigma$ Persondays of Central Liability so far
<input type="checkbox"/>	$\Sigma$ SC persondays
<input type="checkbox"/>	$\Sigma$ SC workers against active workers
<input type="checkbox"/>	$\Sigma$ ST persondays

<input type="checkbox"/>	$\Sigma$ ST workers against active workers
<input type="checkbox"/>	state_name
<input type="checkbox"/>	$\Sigma$ Total Adm Expenditure (Rs. in Lakhs.)
<input type="checkbox"/>	$\Sigma$ Total Exp(Rs. in Lakhs.)
<input type="checkbox"/>	$\Sigma$ Total Households Worked
<input type="checkbox"/>	$\Sigma$ Total Individuals Worked
<input type="checkbox"/>	$\Sigma$ Total No of HHs completed 100 Days of Wage Employment
<input type="checkbox"/>	$\Sigma$ Total No. of Active Job Cards
<input type="checkbox"/>	$\Sigma$ Total No. of Active Workers
<input type="checkbox"/>	$\Sigma$ Total No. of JobCards issued
<input type="checkbox"/>	$\Sigma$ Total No. of Workers
<input type="checkbox"/>	$\Sigma$ Total No. of Works Takenup (New+Spill Over)
<input type="checkbox"/>	<input checked="" type="checkbox"/> $\Sigma$ Total Persondays
<input type="checkbox"/>	$\Sigma$ Wages(Rs. In Lakhs)
<input type="checkbox"/>	$\Sigma$ Women Persondays

There Was No Need of Data Cleaning and Transformation As The Data Was Already Calculated and was in a Good Shape With No Null , Duplicate or Inaccurate Values. However I just created one calculated measure of **SC ST Women** person days as a single Total Person days

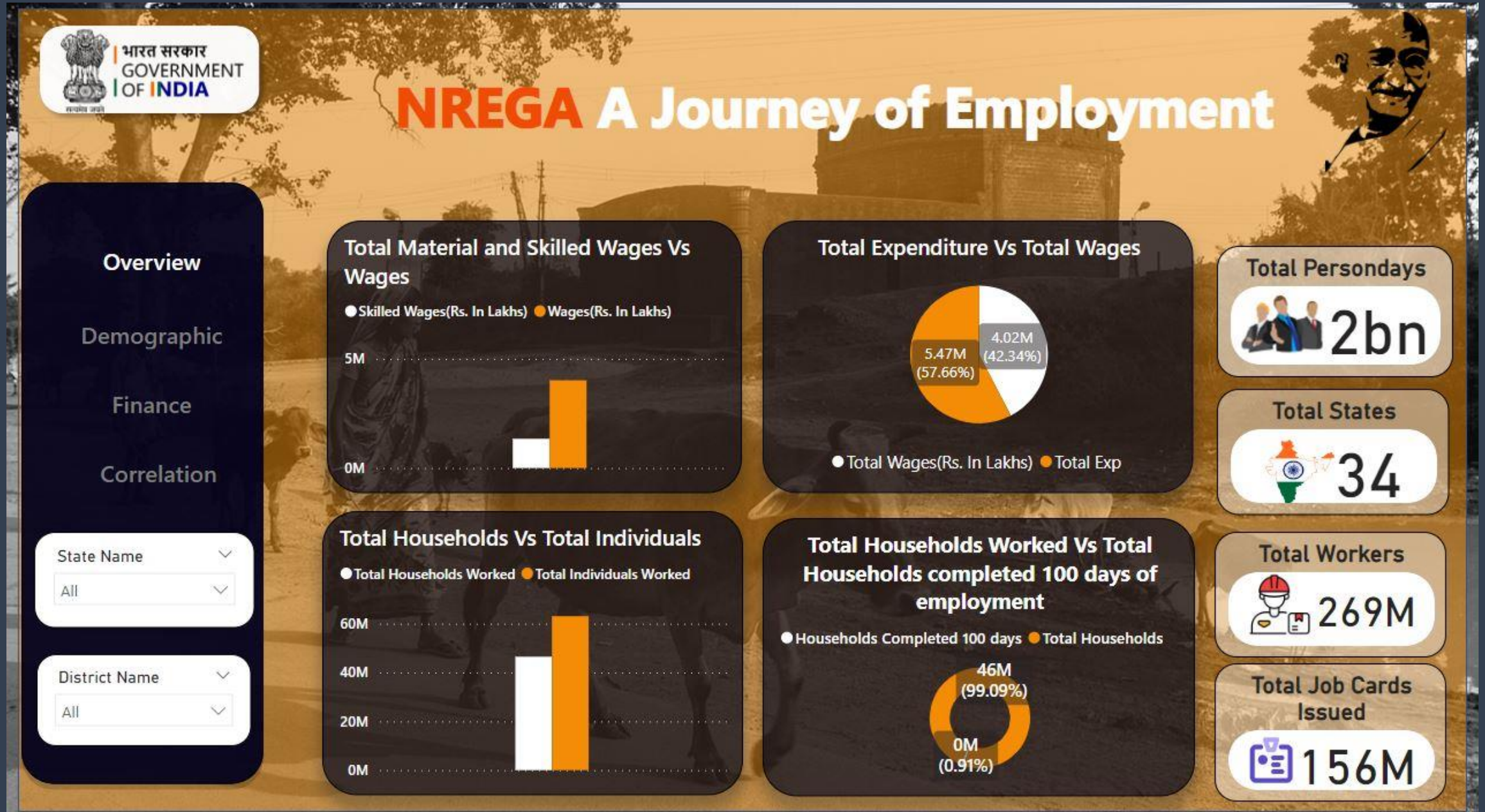
☐ ☒ ☒ Total Persondays



A blurred background image of a rural landscape. In the foreground, there is a green field with a few people and animals, possibly cows. In the middle ground, there is a traditional thatched-roof hut. The background features a line of trees and distant mountains under a blue sky with some clouds. A bright green rectangular border is superimposed over the center of the image, containing the word 'DASHBOARDS' in white text.

# DASHBOARDS

# Dashboard 1 : Overview Tab





# Dashboard 2 : Demographic Tab



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## NREGA A Journey of Employment



Overview

Demographic

Finance

Correlation

State Name



All



District Name



All



### Districts With NILL GPs Expense

Total GPs with NIL Expense 0 395



### Approved Labour Budget Vs Total Wages (Rs. In Lakhs) by State Name

Total Wages (Rs. In Lakhs) 0.00M 0.61M



### Completed Works Vs Ongoing Works by State Name

Total Completed Works Total Ongoing Works



### SC Vs ST Vs Women Persondays by State Name



Total Persondays

2bn

Total States

34

Total Workers

269M

Total Job Cards Issued

156M



# Dashboard 3 : Finance Tab



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## NREGA A Journey of Employment



Overview

Demographic

Finance

Correlation

State Name



All



District Name

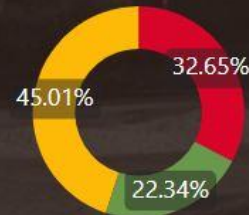


All



### Agricultural Vs NRM Vs Category B Expenditure

● Agricultural ● Natural Resource Management ● Category B



### Average days of employment provided per Household by Number of GPs with NIL Expenditure



Total Persondays

2bn

Total States

34

Total Workers

269M

Total Job Cards Issued

156M

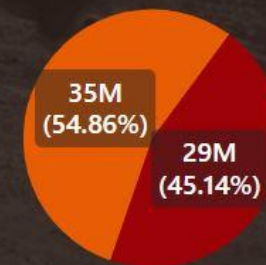
### Average days of employment provided per Household Vs Average Wage rate per day per person(Rs.)

● Average days of employment ● Average Wage rate per day per person(Rs.)



### SC ST workers against Active workers

● Total Scheduled Tribe workers ● Total Scheduled Caste Workers





# Dashboard 4 : Correlation Tab



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## NREGA A Journey of Employment



Overview

Demographic

Finance

Correlation

State Name



All



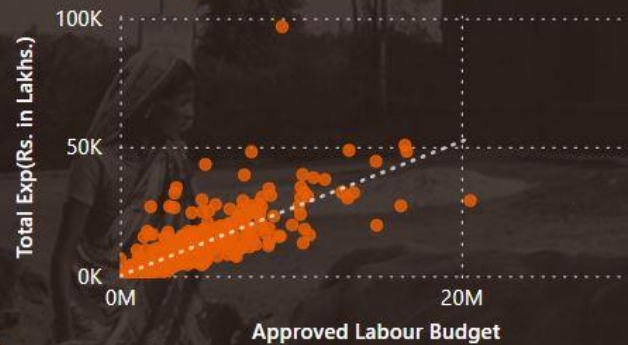
District Name



All



Total Expense and Adm Expense Vs  
Approved Labor Budget



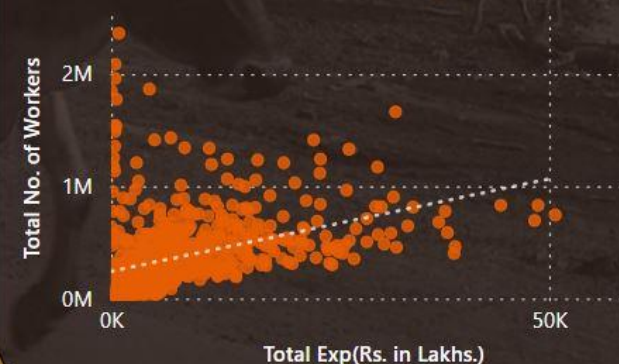
Total Workers Vs Active Workers



Persondays of Central Liability Vs Total  
Persondays



Total Workers Vs Expense



Total Persondays

 2bn

Total States

 34

Total Workers

 269M

Total Job Cards  
Issued

 156M



# INSIGHTS



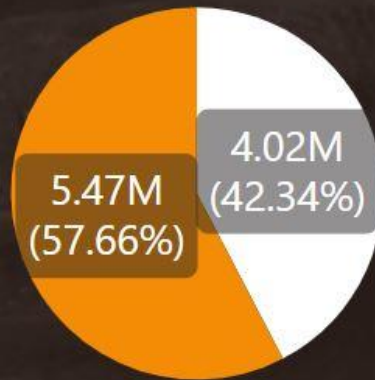
# Insight 1 Total Material and Skilled Wages Vs Wages



When comparing **Material and Skilled Wages Vs Wages** It has observed that Number of Wages are More . The Amount spent on Material and Skilled wages is **1339728.97 Lakhs** Where Amount spent on Wages is more which is **4016983.67 Lakhs** . This Tells us there will be less number of Material and Skilled wages as Compared to Wages or This tells us Wages are Preferred more as compared to Material and Skilled Wages as The Program Want to mainly help Poor People Wages .

## Insight 2 Total Expenditure Vs Total Wages

Total Expenditure Vs Total Wages



● Total Wages(Rs. In Lakhs) ● Total Exp

When comparing **Total Expenditure** Vs **Total Wages** It has observed that Expenditure spent on Total Wages is **4.02M** which is **42.34 Percent** of the whole Expenditure which Tells us A large Amount of The Funds is spent on wages which is a good sign of **Program efficiency** . **5.47M** is spent on other Expenditures which is **57.66 percent** of the whole expenditure



# Insight 3 Households Vs Total Individuals



When comparing **Total households** Vs **Total Individuals** It has observed that **Total Individuals were more** than **Total Households** which tells us that multiple individuals from the same Household have participated in the Program . It means that multiple members of the same Household are participating in the program and are taking benefit from the Program . **So it means the program is working effectively in providing work and reducing unemployment in the same Household**

# Insight 4 Total Households worked Vs Total Households completed 100 days of employment

## Total Households Worked Vs Total Households completed 100 days of employment

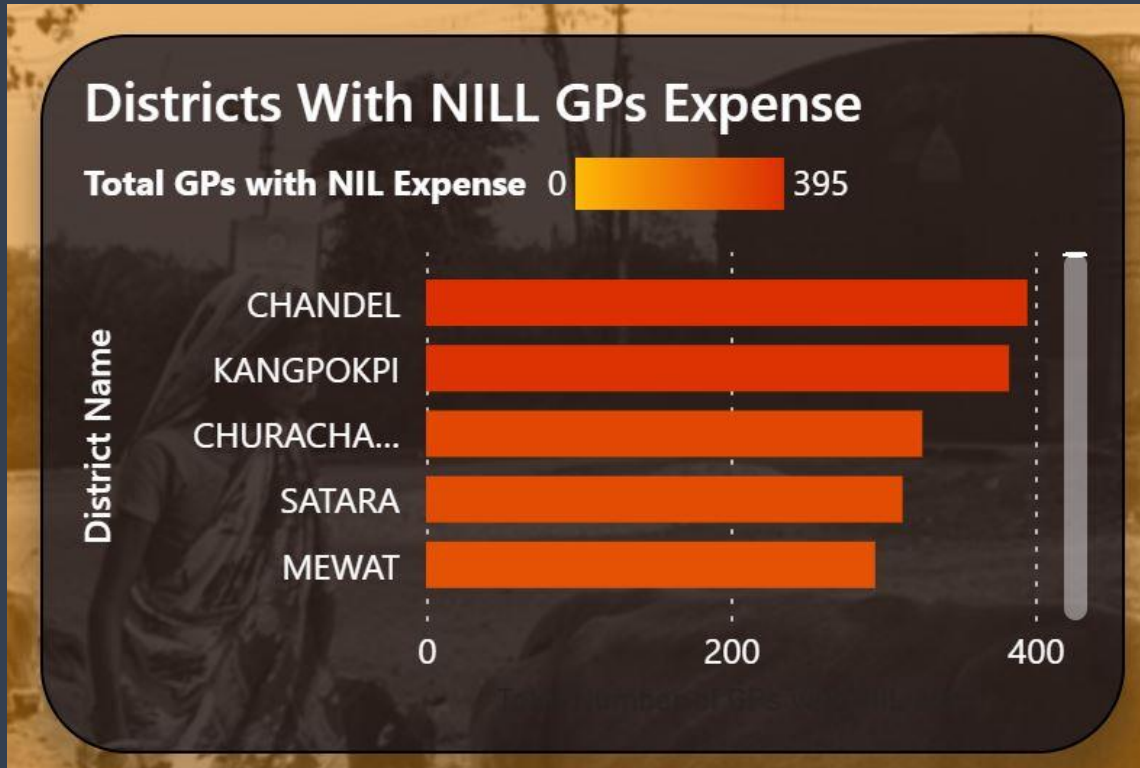
● Households Completed 100 days ● Total Households



When comparing **Total households worked** Vs **Total households completed 100 days of employment** . It has observed that **Total households** were 46M which were 99.09 percent and **Total households completed 100 days of employment** were 0M around 0.91 percent . This Tells us A large Amount of Households are taking part in the Program but only 0.91 percent are completing 100 days of employment which needs to be Identified .

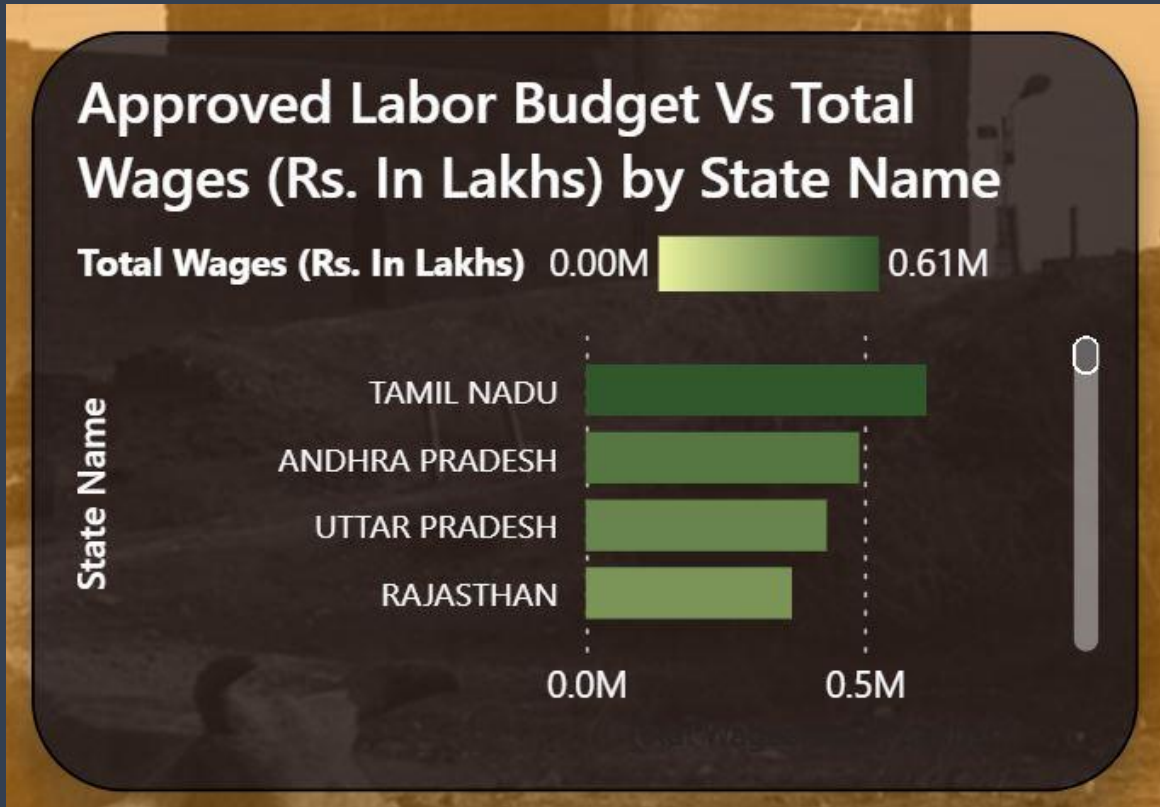


# Insight 5 Districts with NILL GPs Expense



When comparing **Districts** VS **GPs** with NILL Expense . It has observed that there are Different Number of GPs in Each State that had NILL Expense . **CHANDEL** District has most number of NILL GPs Expense . **KIPHIRE** District has least Number of NILL GPs Expense . We draw can further insights based on these insights .

## Insight 6 Approved Labor Budget Vs Total Wages By State Name



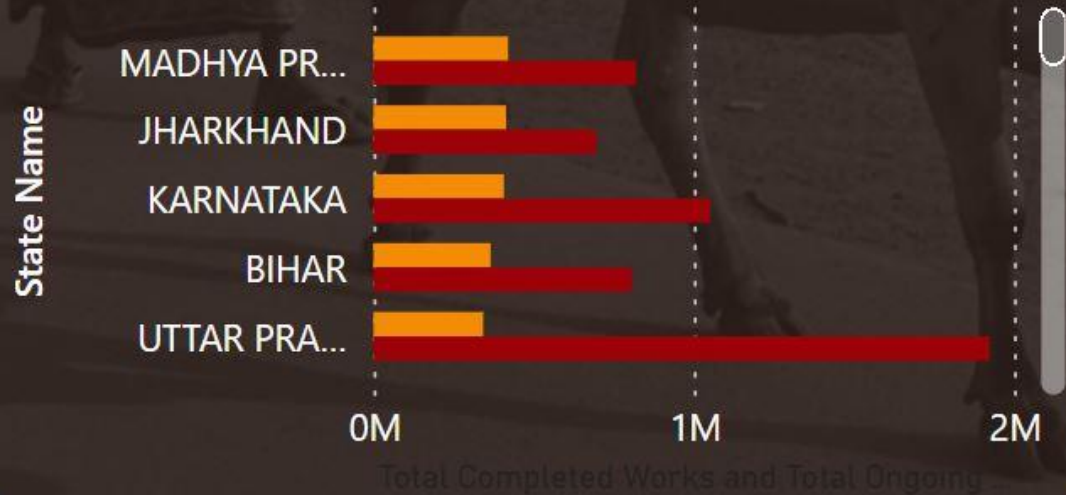
When comparing **Approved Labor Budget** Vs **Total Wages** by State Name. It has observed that **Tamil Nadu** State has provided most number of Wages and **DN HAVELI AND DD** provided almost no wages . There Are Several Factors according to which Wages are provided in these regions . Other Insights can help to get those insights.



## Insight 7 Completed Works Vs Ongoing Works by State Name

### Completed Works Vs Ongoing Works by State Name

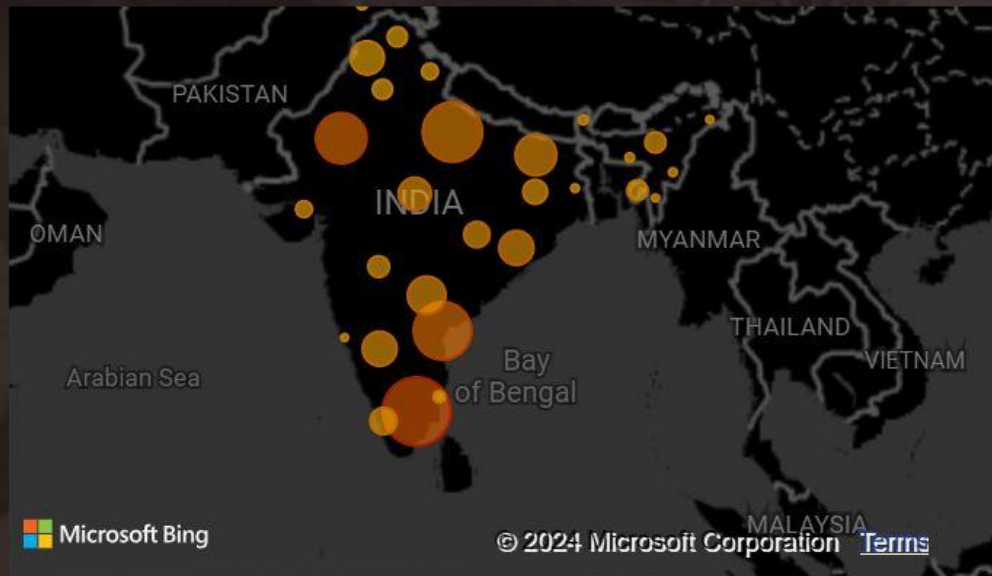
● Total Completed Works ● Total Ongoing Works



When comparing **Completed Works** Vs **Ongoing Works** by State Name. It has observed that **Madhya PRADESH** has most number of Total Completed Works and **UTTAR PRADESH** has Most number of Total Ongoing Works . These things provides insights like Madhya Pradesh is the State where is the state where Program implemented very well the impact and efficiency of program working well in Madhya Pradesh . Where Ongoing works in UP says that maybe UP has to face challenges maybe taking time to complete due to it's geographical size

# Insight 8 SC vs ST vs Women Person days By State Name

## SC Vs ST Vs Women Persondays by State Name



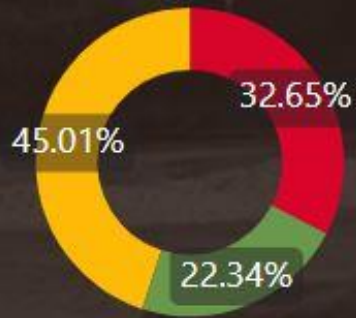
When comparing SC Vs ST Vs Women Persondays by State Name. It has observed that Tamil Nadu has Most number of Person days 276983814 and GOA has least Person days 33725 . These Insights can help to find more insights when we check by relating with other factors.



## Insight 9 Agricultural vs NRM vs Category B Expense

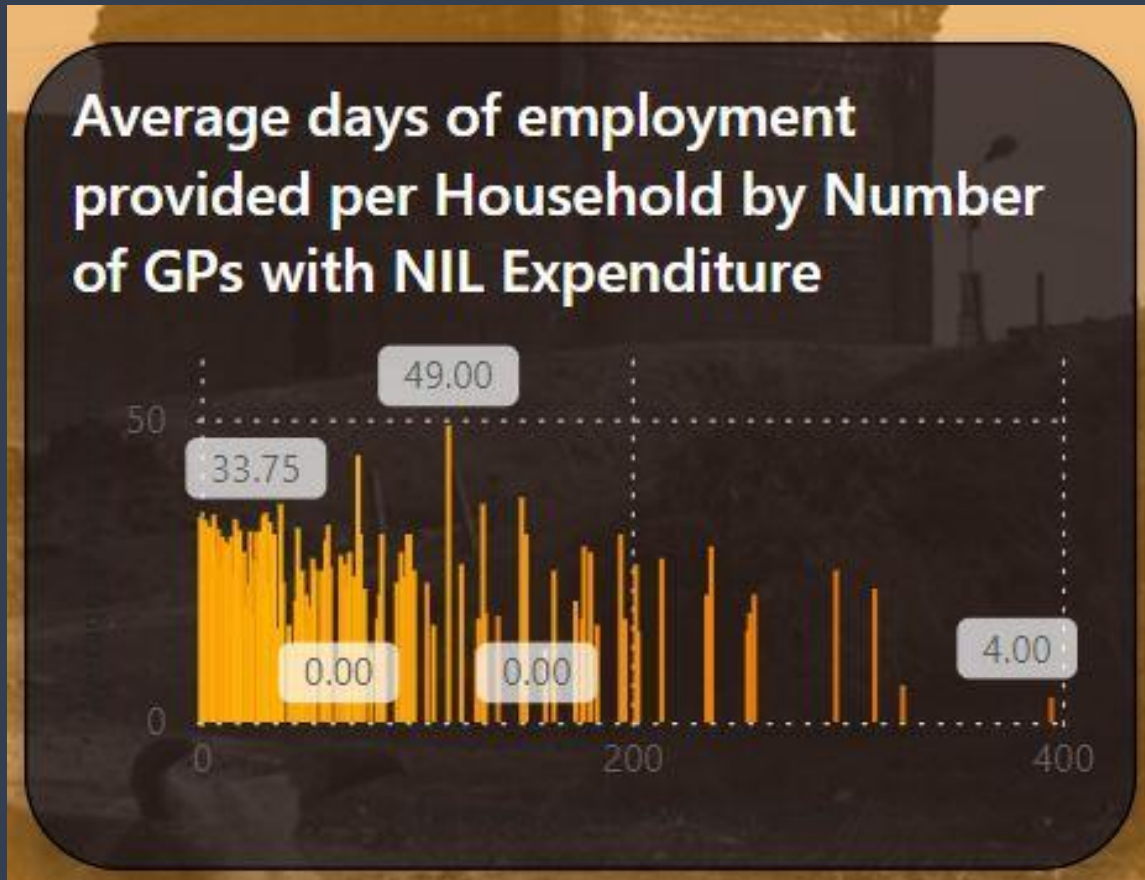
### Agricultural Vs NRM Vs Category B Expenditure

● Agricultural ● Natural Resource Management ● Category B



When comparing **Agricultural** Vs **NRM** Vs **Category B** Expense . It has observed that **Category B** has most expenses **45.01** percent and **Agricultural** has **32.65** percent and **NRM** has **22.34** percent . Category B refers to wages and other Expenses . So this tells us that Program was quite effective.

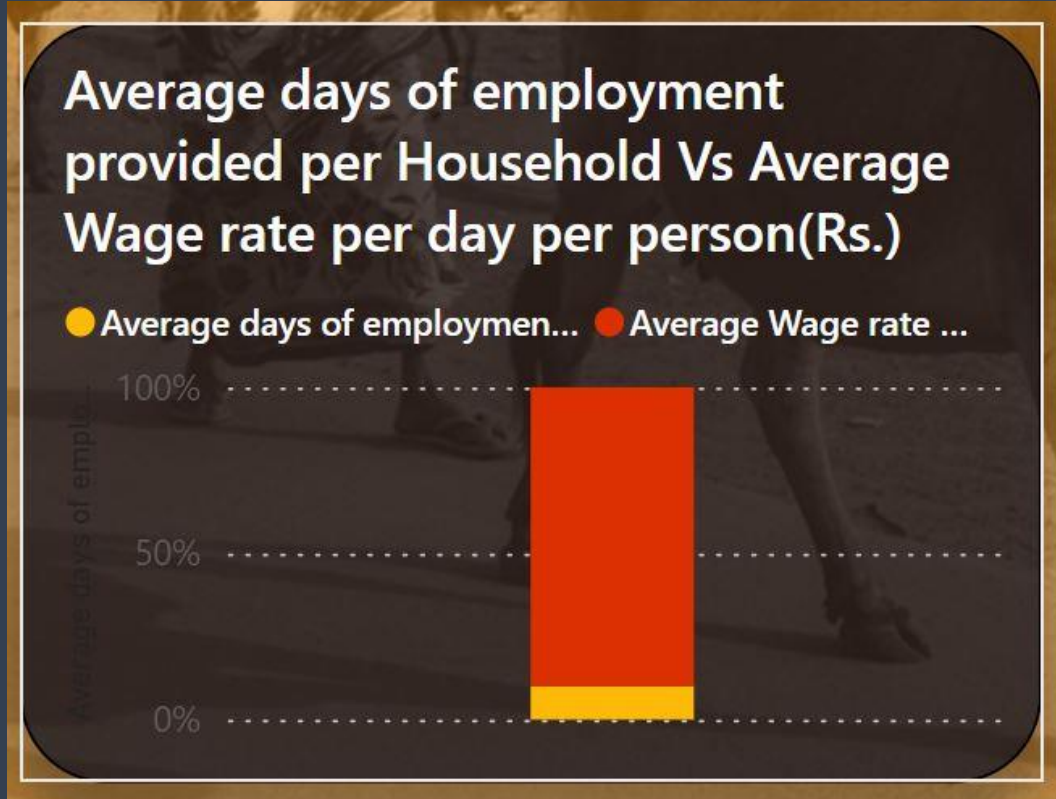
## Insight 10 **AVG days of Employment provided per household** By No of GPs with **NILL Expenditure**



When comparing **AVG days of Employment Provided Per Household** Vs **Number of GPs with NILL Expenditure** . It has observed that **GPs with NILL Expenditure** has less number of AVG days of Employment Provided per Household but that cannot be said exactly as the visualization does not tells us this.

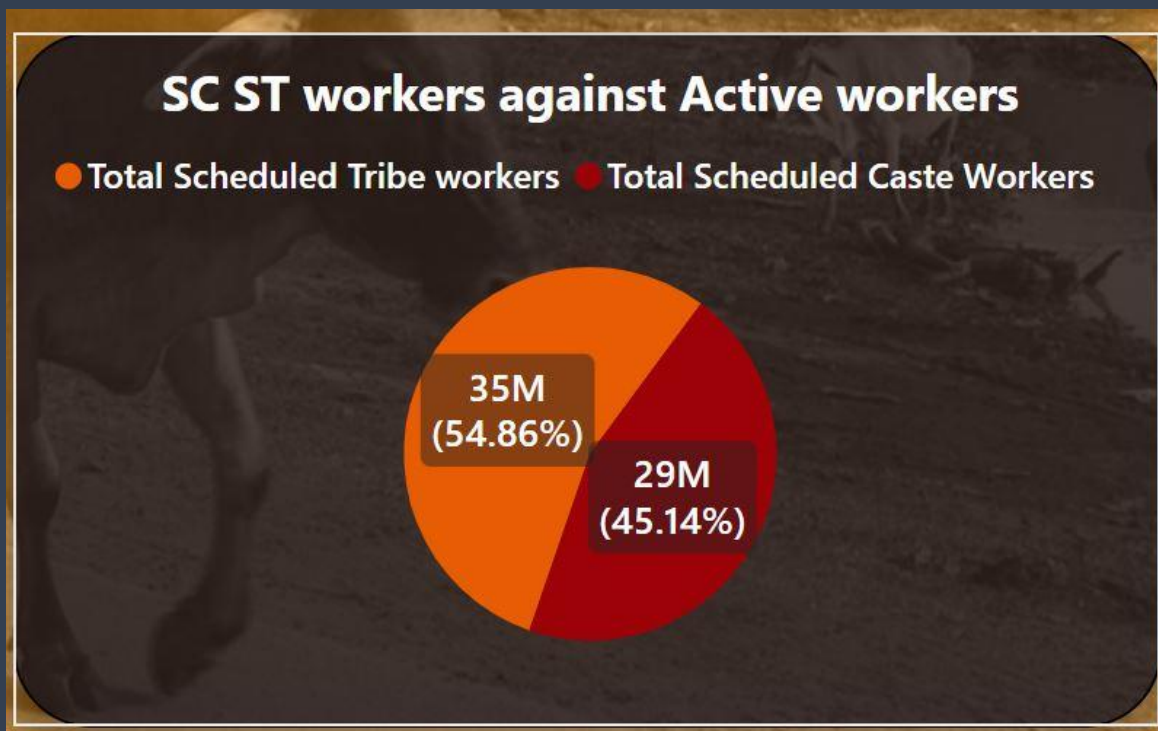


## Insight 11 **AVG days of Employment provided per household Vs Average Wage Rate Per Day per person**



When comparing **AVG days of Employment Provided Per Household Vs Average Wage Rate Per Day per Person**. It has observed that **AVG days of Employment** is **30.91** days and **AVG Wage Rate Per Day** is **276.05** and these figures change by Demographic region

## Insight 12 SC ST workers Vs Active Workers



When comparing **SC ST Workers** Vs **Active Workers**. It has observed that **ST workers** are More Than **SC workers**. **ST workers** are 35M which is 54.86 percent of total workers and SC workers are 29M which is 45.14 percent of total workers.



## Insight 13 Total Expense and Adm Expense Vs Approved Labor Budget



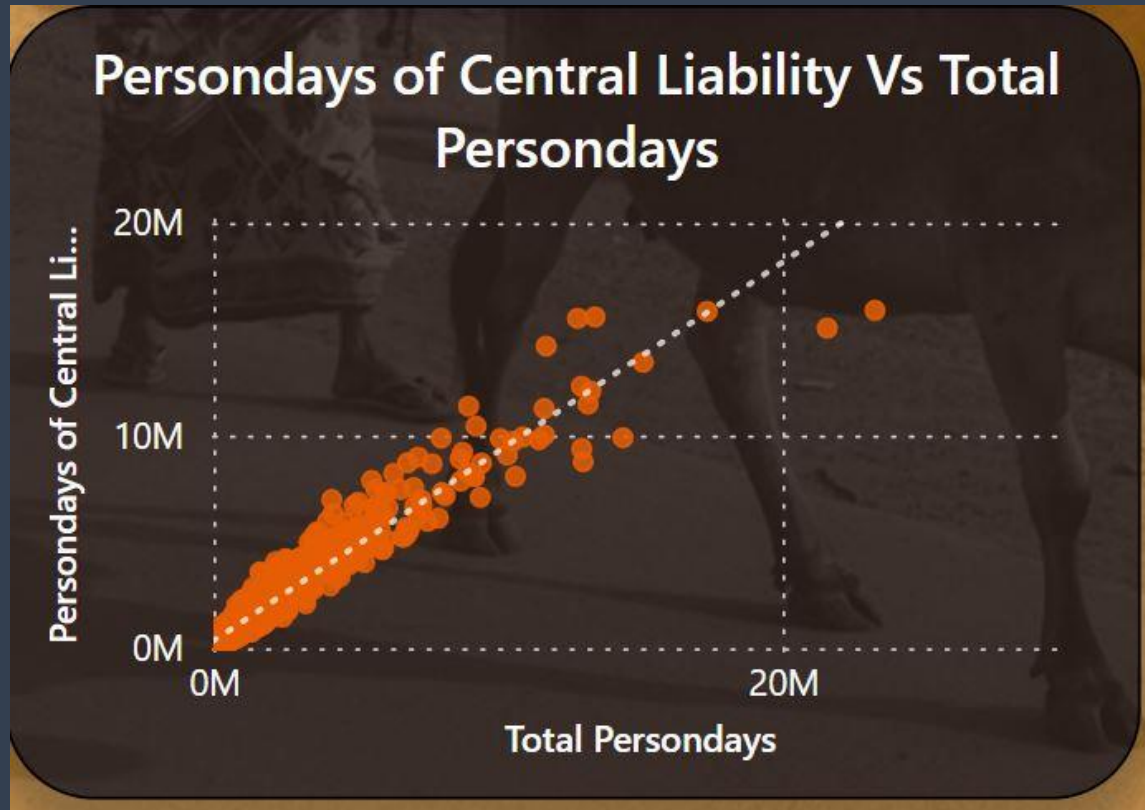
When comparing Total Expense and Adm Expense Vs Approved Labor Budget. It has observed that there is a Strong Correlation between Total Expense , Adm Expense with Approved Labor Budget . As Approved Labor Budget Increases Total Expense and Adm Expense also increases .

## Insight 14 Total Workers Vs Active Workers



When comparing **Total Workers Vs Active Workers**. It has observed that there is a Strong Correlation between **Total Workers** and **Active Workers**. The visual shows us as the **Total workers** increases **Active workers** also increases .

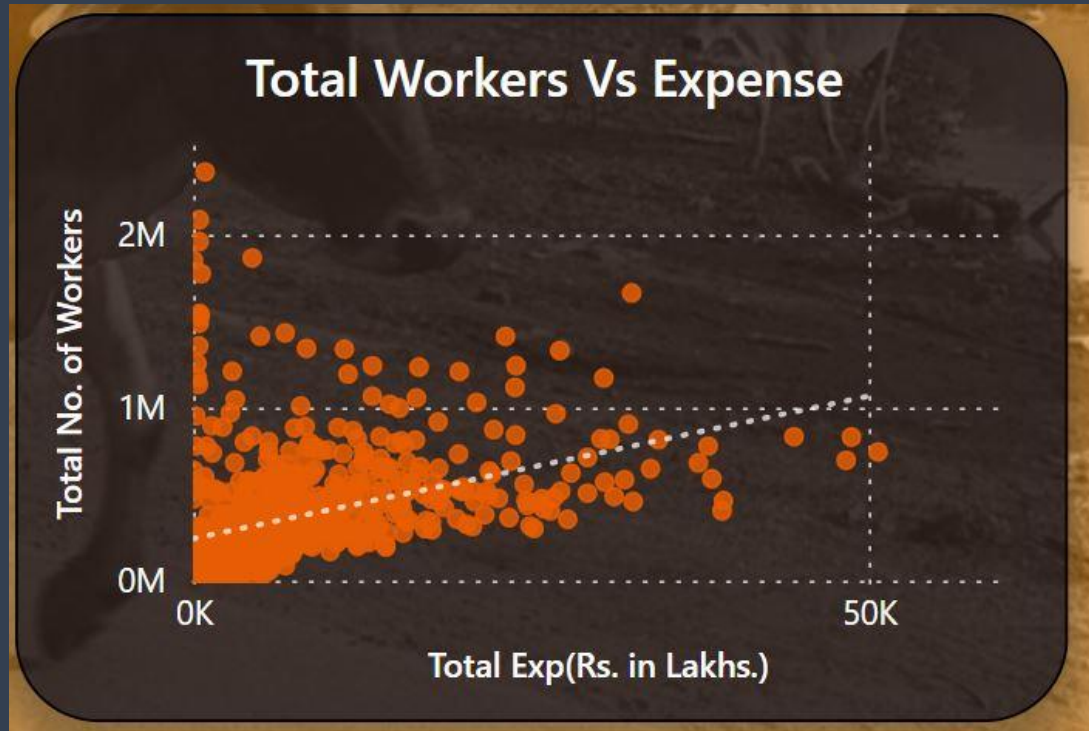
## Insight 15 Person days of Central Liability Vs Total Person days



When comparing **Person days of Central Liability** Vs **Total Person days**. It has observed that there is a Strong Correlation between **Person days of Central Liability** and **Total Person days**. The visual shows us that if one increases other also increases



## Insight 15 Total workers Vs Total Expense



When comparing **Total workers** Vs **Total Expense**. It has observed that there is a Strong Correlation between **Total workers** and **Total Expense**. The visual shows us that if Workers will increase Then Expense will also increase

The background is a blurred photograph of a group of people in a field. In the center, there is a white rectangular box with a thin black border. Inside this box, the word "CONCLUSION" is written in a bold, white, sans-serif font.

# CONCLUSION

# Conclusion Points

- Overall Performance of Program is quite good as around 4.02M lakhs Expenditure has spent at large number of Wages that have paid to the Workers this shows that Program is effectively providing Employment to the Rural Area Workers and households.
- Total Households Worked compared with Total Households Completed 100 days of Employment it has seen that there is only 0.91 percent households completed 100 days of employment which is a big drawback this needs to be investigated and tackled that what factors are causing them not to complete 100 days of employment .
- Five States That Provided Most Wages are Tamil Nadu , Andhra Pradesh , Uttar Pradesh , Rajasthan and Bihar It means These States also had large number of Approved Budget and Everything Was fair in these States
- There are many Districts with NILL Expenditure that ranges from 0 – 395 . The Top 5 States are CHANDEL , KANGPOKPI , CHURACHANDPUR , SATARA , MEWAT which are on top level with highest NILL Expenditure GPs. This Needs to be investigated why these District GPs have NILL Expenditure . Some districts had no AVG days labor so that this makes sense by some had which indicates there might be chances of Corruption further steps to be taken to ensure that .  
Transparency Measures , Accountability Mechanisms , Audits and Inspection and Legal Action



# Conclusion Points

- The Top 5 States With SC ST and Women Person days are Tamil Nadu , Andhra Pradesh , Uttar Pradesh , Rajasthan and Bihar . We had observed before also these states were providing most number of wages So we can say that these states are most fair states in terms of providing Employment and Wages .
- The Top 5 States with Completed works are Madhya Pradesh , Jharkhand , Karnataka , Bihar , Uttar Pradesh which tells that construction and work provided timely in these states . The Top 5 States with Most Number of Ongoing Works are Uttar Pradesh , West Bengal , Karnataka , Bihar , Jharkhand and many more . It means these states are hot currently in terms of development
- SC ST workers against Active Workers tells us there are 35M 54.85% ST workers and 29M 45.14% SC workers which indicates that Large number of Workers have participated in Program but There are More ST workers against SC workers might be there is kind of BIAS as SC are considered untouchables in Indian culture . This thing needs to be investigated is it due to these cultural factors or is it a coincidence .

THANK YOU

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