"DISSEMINATION OF EDUCATION FOR KNOWLEDGE, SCIENCE AND CULTURE"

-SHIKHANMAHARSHI DR. BAPUJI SALUNKHE



VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

DEPARTMENT OF STATISTICS

A PROJECT REPORT ON

"SURVEY ON GOVERNANCE ISSUES & VOTING BEHAVIOUR"

Submitted by

Ms. Chinmayee Mandar Sabnis Ms. Neha Sharad Patil Ms. Shreya Santosh Bhudargade Ms. Anjali Deelip Mali

in partial fulfilment for the award of the

degree of

BACHELOR OF SCIENCE

in

STATISTICS

2023-24

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-SHIKHANMAHARSHI DR. BAPUJI SALUNKHE



VIVEKANAND COLLEGE, KOLHAPUR (Empowered Autonomous) DEAPRIMENT OF STATISTICS

Certificate

This is to Certify that,

Sr. No.	Name	Roll No.
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2	Ms. Neha Sharad Patil	8319
3	Ms. Shreya Santosh Bhudargade	8303
4	Ms. Anjali Deelip Mali	8312

Have satisfactorily completed the project work on "SURVEY ON GOVERNANCE ISSUES & VOTING

BEHAVIOUR" as a part of skill enhancement course for B. Sc. III, prescribed by the Department of

Statistics, Vivekanand College, Kolhapur (Empowered Autonomous) in the academic year 2023-24.

This project has been completed under our guidance and supervision. To the best of our knowledge and belief, the matter presented in this project report is original and has not been submitted elsewhere for any other purpose.

Project Guide

(Ms. Ransubhe P. V.)

Examiner

(Mrs. Shinde V. C.)

HEAD

DEPARTMENT OF STATISTICS VIVEKANAND COLLEGE, KOLHAPUR (FMPOWERED AUTONOMOLIS)

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DECLARATION

We hereby declare that the project report entitled "SURVEY ON GOVERNANCE ISSUES & VOTING BEHAVIOUR" written and submitted to Vivekanand College, Kolhapur (Empowered Autonomous), partial fulfilment of B.Sc. III (Statistics) under the guidance of Ms. Ransubhe P. V. is our original work. The empirical results in this project are based on the data collected by ourselves.

We understand that any copying is liable to be published as the authorities deem fit.

Date: 24/4/24

Place: Kolhapur

Name	Sign
Chinmayee Sabnis	diam's
Neha Patil	Aportile
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Anjali Mali	Apmali

ACKNOWLEGEMENT

We are extremely thankful to Mrs. V. C. Shinde, Head of Department of Statistics, Vivekanand College, Kolhapur (Empowered Autonomous) for her valuable guidance and encouragement throughout this project work due to us during the study.

The project is submitted by **Chinmayee Sabnis**, **Neha Patil**, **Shreya Bhudargade**, **Anjali Mali** in partial fulfilment of the degree leading to B.Sc. III submitted to department of statistics, Vivekanand College, Kolhapur (Empowered Autonomous).

We are also thankful to **project guide Ms. Ransubhe P. V**. & all teaching staff as well as non-teaching staff members of Department of Statistics Vivekanand College, Kolhapur (Empowered Autonomous) for the direct & indirect support.

And so, we sincerely thankful to our parents for helping us in all aspects to complete the project work. Finally, we would like to appreciate to our friends, colleagues for their direct and indirect contribution

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Introduction

In contemporary societies, governance issues and voting behavior are pivotal components influencing the stability and progress of nations. Understanding the dynamics of citizen perception towards governance and their voting patterns provides critical insights for policymakers, politicians, and academics alike. The project aims to delve into these interconnected realms through a comprehensive survey designed to explore citizen sentiments, concerns, and preferences. The three main objectives of this survey were to identify the following:

- Voter's priorities on specific governance issues.
- Voters' ratings of the government's performance on those issues.
- Factors impacting voting behavior.

This report describes the status of the 17 most important issues for the voters in their particular region in terms of their capacity, governance and specific roles in improving the living conditions of the voters. These aspects are analyzed in relation to the performance of the government on those issues as perceived by the respondents. To identify what are voter priorities in terms of governance issues like water, electricity, roads, food, education, health etc.

The key objective of this perception assessment is to provide an improved understanding of the important expectations of voters from the Government and how they assess its performance.

OBJECTIVES

- To identify voter's priorities on specific governance issues.
- To assess the expectation of voters from the government
- To identify the factors that are influencing voting behavior.
- To assess the level of awareness among citizens regarding key governance issues.
- To assess the expectations from the government and the priorities of voters belonging to different caste categories, wealth categories, age and gender.

Methodology

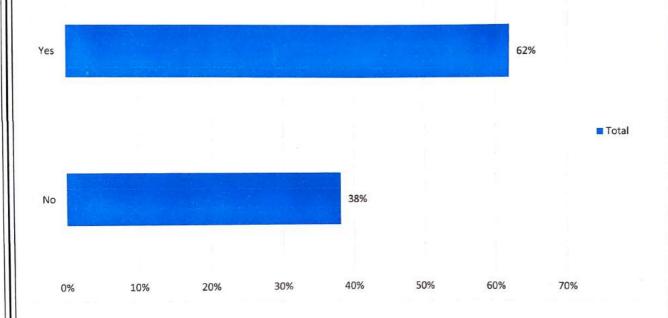
It is important to note that the survey is entirely about voter's perception. For e.g some groups may perceive school education as very important while another may not think so. Whether voter's perception is right or wrong is immaterial for our purposes.

The survey was done in Kolhapur city and a particular age group is selected from 18-55+. We collected 210 samples and convenient sampling method is used. Given the size of the survey and time limitations, we wanted to keep the questionnaire short and simple, the questionnaire includes 15 questions with 17 different government issues. It collected the following information:

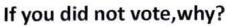
- Demographic Data: Name, gender, caste, age, etc.
- Important factors for Voting: Candidate, political party, distribution of gifts.
- Voter's awareness regarding crime and money: Specifically whether they know of distribution of gifts or criminal record, etc.
- Voter's priority amongst 17 governance issues and performance of government as rated by voters on those issues: This includes, Primary healthcare, School education, Better roads, Training for jobs, Better garbage clearance, Women empowerment, Encroachment of public land, etc.

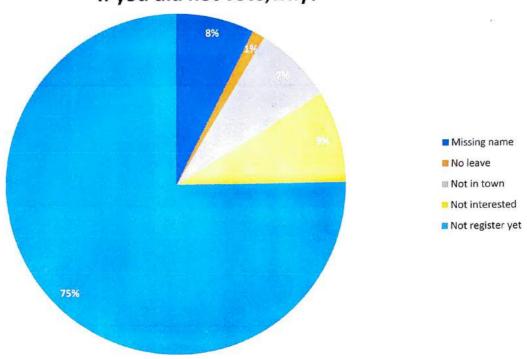
Diagrammatical Representation of Data

Did you vote in the last election?

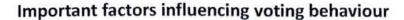


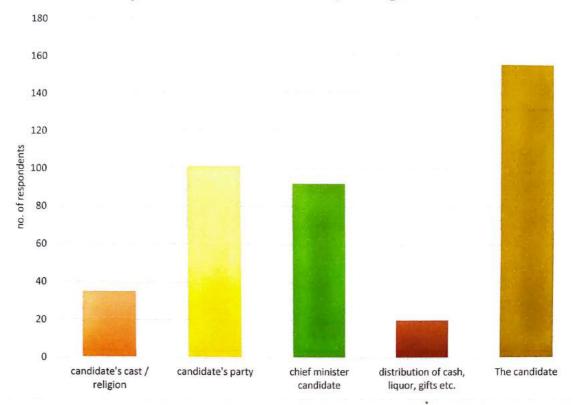
<u>Result</u>: Based on our data 62% people have voted in last election.





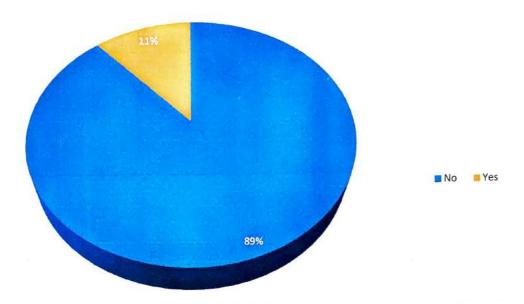
<u>Result</u>: 75% respondents did not voted because they did not registered for voting yet.





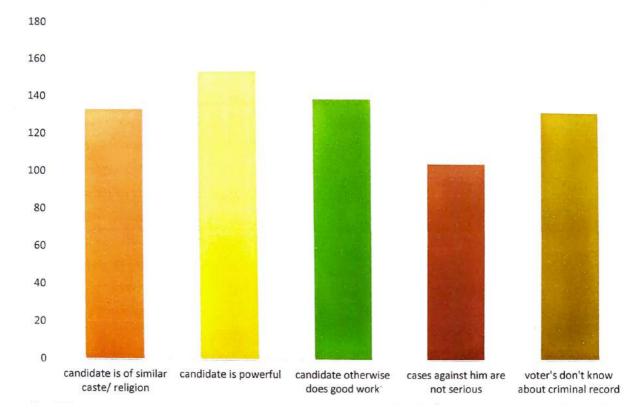
Result: From the above graph it can be seen that the candidate is the most important factor influencing voting behavior.

Should someone with a criminal case be in parliament or in state assembly?

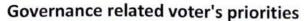


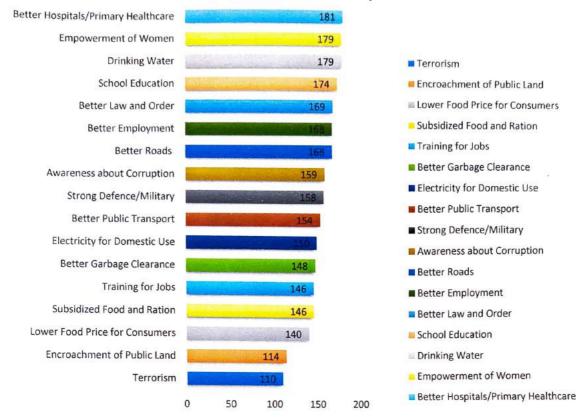
<u>Result</u>: 89% people think that a candidate with criminal case should not be in a parliament or state assembly.

Why do people vote for those with criminal records?



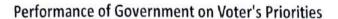
Result: 72% Respondents think that people vote for a candidate with criminal record because <u>candidate is powerful</u>.

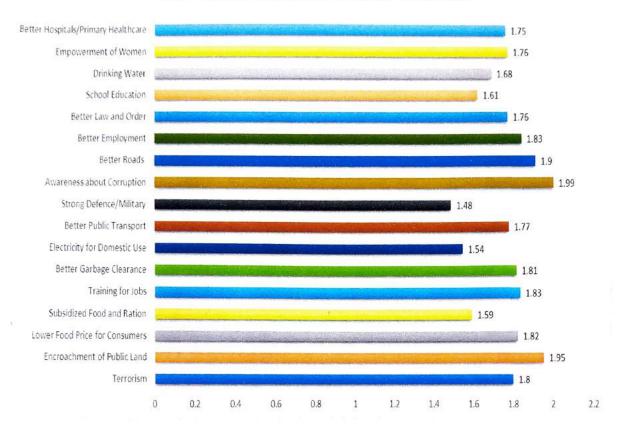




Result: Based on our data the top 5 priorities are,

- 1)181 people chose Better hospitals/primary healthcare as their first priority.
- 2) 179 people consider Women empowerment as their second most important priority.
- 3) 179 people consider Drinking water as their third most important priority.
- 4) 174 people consider School education as their fourth most important priority.
- 5) 169 people consider Better law and order as their fifth most important priority.

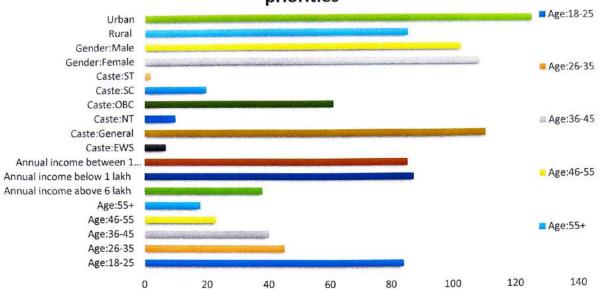




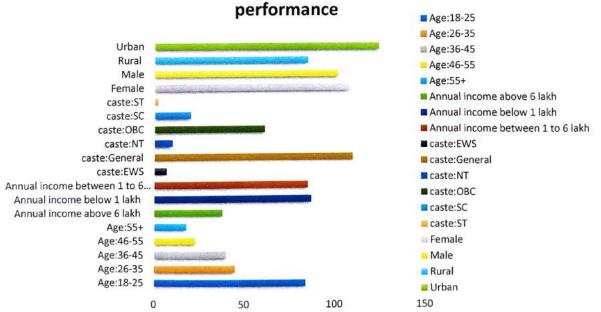
<u>Result:</u> From above graph it can be seen that average of awareness about corruption is more i.e. **performance of government on awareness about corruption is poor.**

Governance Related Top 5 Voter's Priorities And Government's Performance:

Better hospitals/Primary health care centres-Voter's priorities

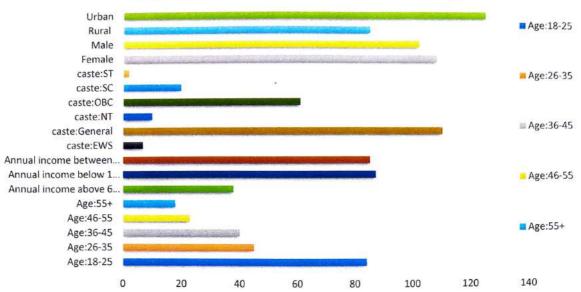




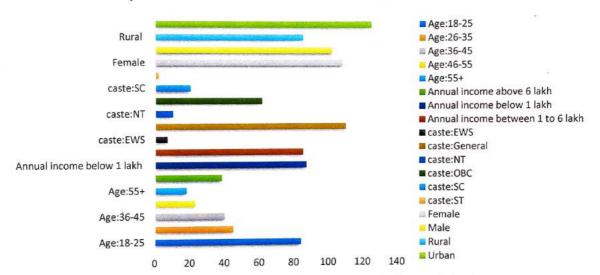


Result: Voter's consider better hospitals as first most important issue. It is higher for urban voters and female voters. The overall performance rating is between the range average to Good.



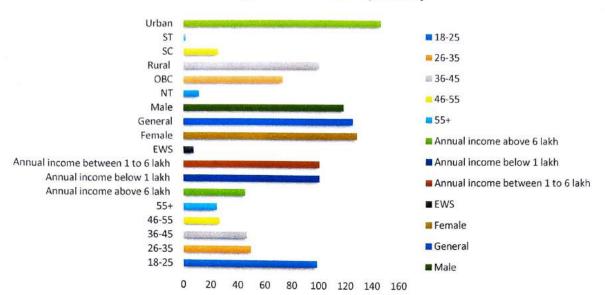


Empoverment of Women-Govrnment Performance

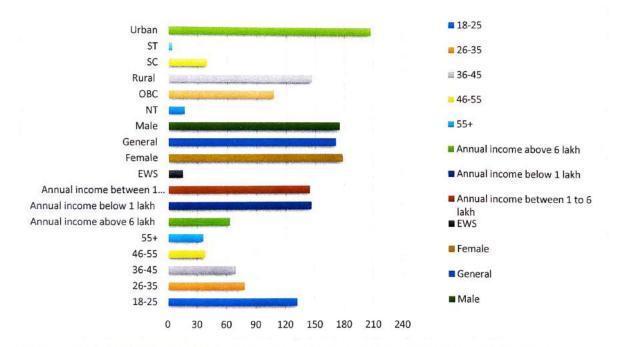


<u>Result:</u> Voter's consider women empowerment and security as second most important governance issue. It is particularly higher for urban voters, voters from general category and age group between 18-25. governments performance is average on this issue.

Drinking water-voter's priority

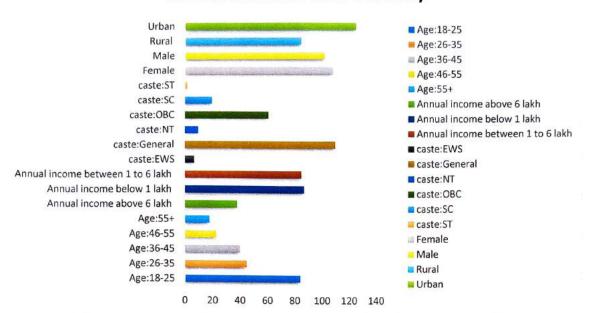


Drinking water-Government perfomance

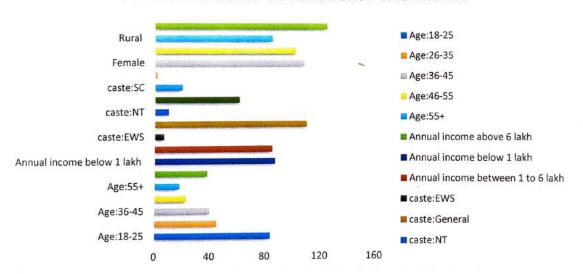


<u>Result:</u> Voter's consider drinking water as third most important governance issue. It is higher for urban voters, voters from general category and male and female voters. The government's performance is average on this issue.

School Education-voter's Priority

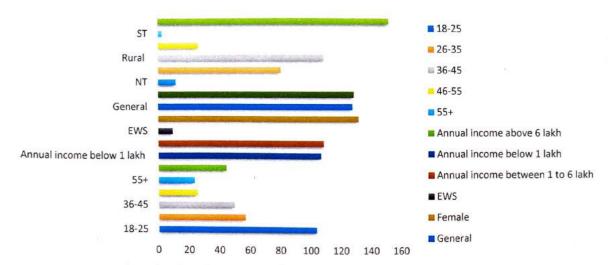


School Education-Government Performance

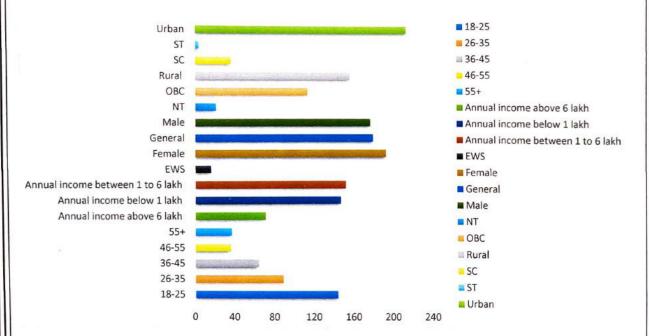


<u>Result:</u> Voter's consider School education as fourth most important governance issue. It is higher for urban voters, voters from general category and age group from 18-25 voters. The government's performance is good to average on this issue.

Better law and order/policing-voter's priority

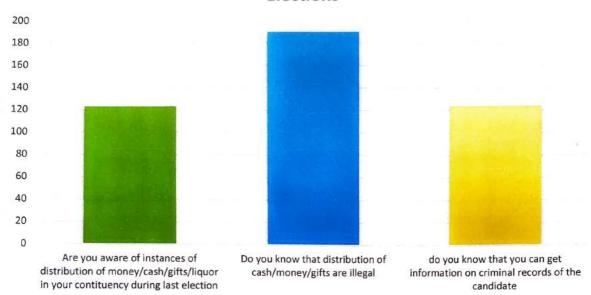


Better law and order/policing-government perfomance



<u>Result</u>: _Voters consider better law and order/Policing as fifth most important governance issue. It is higher for urban voters, voters from general category and male and female voters. The government's performance is good on this issue

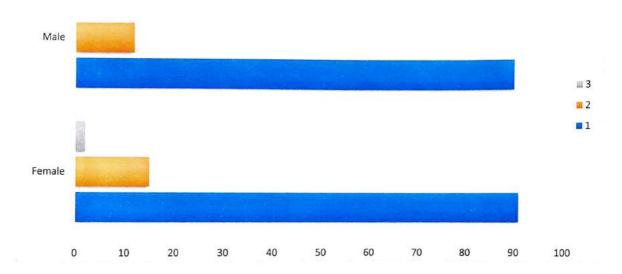
Voter Awareness Regarding Crime And Money In Elections



Result: 90% people are aware about distribution of cash/money/gifts are illegal.

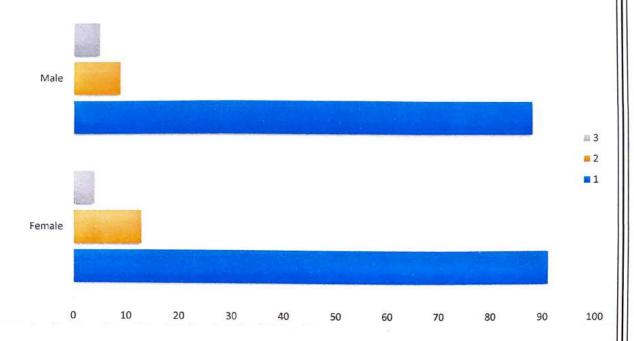
Male v/s Female Voter's priority:

Better hospital/ primary helthcare centers.



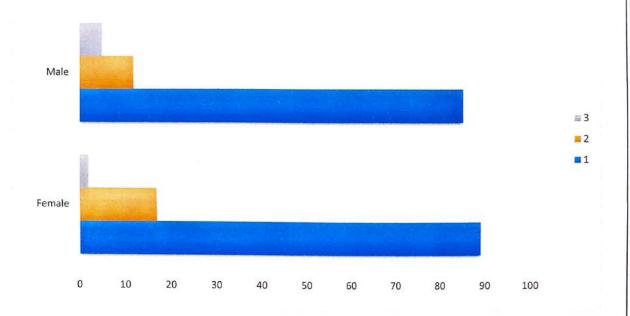
Result: Based on our data both male and female has better hospitals as their first priority.



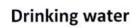


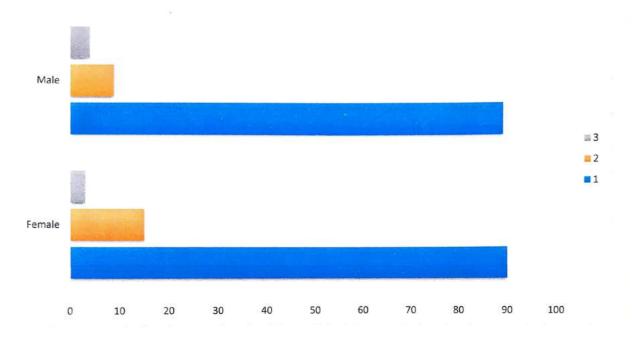
Result: From the above graph both male and female has women empowerment as their first priority.



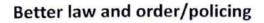


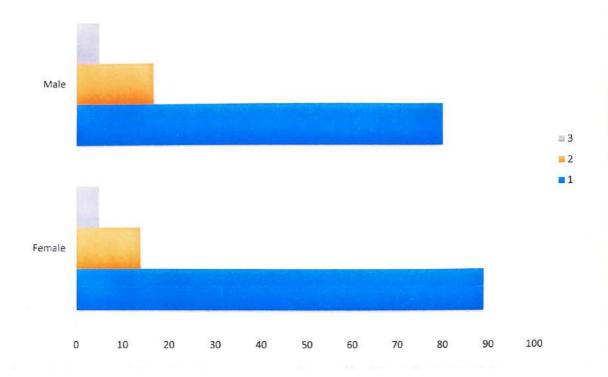
Result: From the above graph both male and female has school education as their first priority.





<u>Result</u>: From above graph both male and female chose drinking water as their first priority

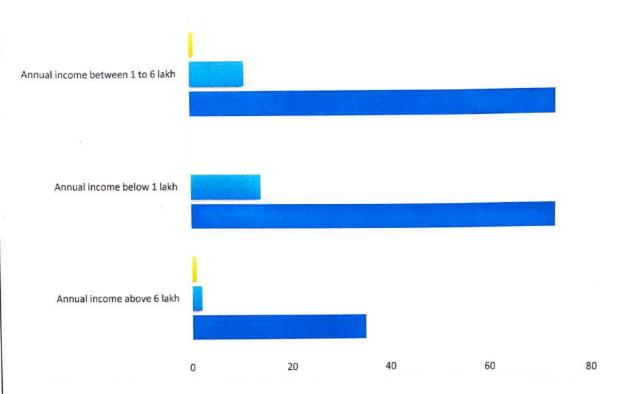




Result: From above graph both male and female chose better law and order/policing as their first priority

Top 5 voter's priority across Wealth Category:

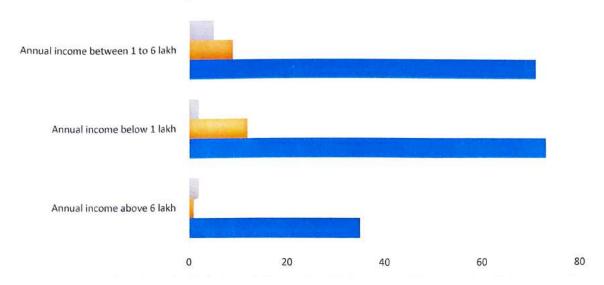
Better hospitals/primary helthcare centers.



<u>Result:</u> 1) 73 out of 85 people from annual income between 1 to 6 lakh have given first priority to Better Hospitals.

- 2) 73 out of 87 people from annual income below 1 lakh have given first priority to Better Hospitals.
- 3) 35 out of 38 people from annual income above 6 lakh have given first priority to Better Hospitals.

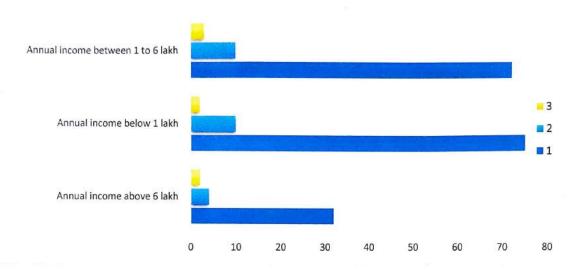
Empowerment of women and security



<u>Result</u>: 1) 71 out of 85 people from annual income between 1 to 6 lakh have given first priority to Empowerment of women and security.

- 2) 73 out of 87 people from annual income below 1 lakh have given first priority to Empowerment of women and security.
- 3) 35 out of 38 people from annual income above 6 lakh have given first priority to Empowerment of women and security.

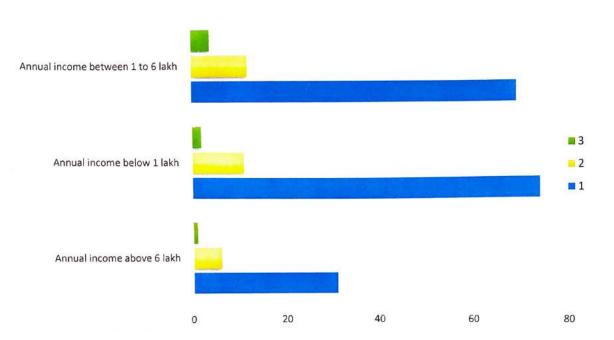
Drinking water



<u>Result</u>: 1) 72 out of 85 people from annual income between 1 to 6 lakh have given first priority to Drinking Water.

- 2) 75 out of 87 people from annual income below 1 lakh have given first priority to Drinking Water.
- 3) 32 out of 38 people from annual income above 6 lakh have given first priority to Drinking Water.

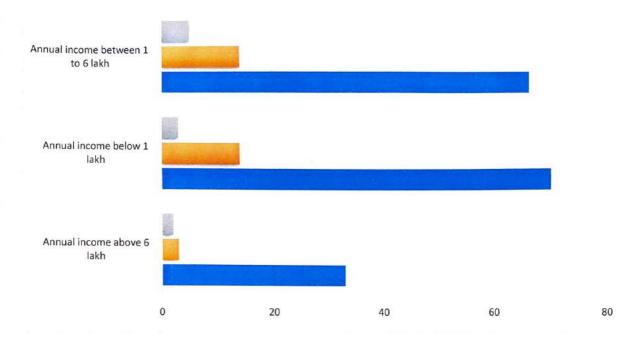
School education



<u>Result</u>: 1) 69 out of 85 people from annual income between 1 to 6 lakh have given first priority to School Education.

- 2) 74 out of 87 people from annual income below 1 lakh have given first priority to School Education.
- 3) 31 out of 38 people from annual income above 6 lakh have given first priority to School Education.

Better law and order/policing



<u>Result:</u> 1) 66 out of 85 people from annual income between 1 to 6 lakh have given first priority to Better law and order/Policing.

- 2) 70 out of 87 people from annual income below 1 lakh have given first priority to Better law and order/Policing.
- 3) 33 out of 38 people from annual income above 6 lakh have given first priority to Better law and order/Policing.

STATISTICAL ANALYSIS

• Chi-Square Test:

Ranking according to gender:

1.Better Hospitals/Primary Healthcare:

Hypothesis:

H₀: Gender and priority to Better Hospitals are independent.

H₁: Gender and priority to better Hospitals are dependent.

Priority to Better hospitals	1	2	3	Total
Female	91	12	5	108
Male	85	12	5	102
Total	176	24	10	210

• Observations:

$$\chi^2_{cal} = 2.1692$$

$$\chi^2_{tab} = 0.3841$$

$$\chi^2_{cal}\!>\chi^2_{tab}$$

• <u>Result</u>: Gender and priority to better hospitals are dependent.

2. Empowerment of Women and security:

Hypothesis:

H₀: Gender and priority to Empowerment of Women and security are independent.

H₁: Gender and priority to Empowerment of Women and security are dependent.

Priority to Empowerment of women and security	1	2	3	Total
Female	89	13	6	107
Male	88	09	5	103
Total	179	22	11	210

• Observations:

$$\chi^{2}_{cal} = 0.7178$$
 $\chi^{2}_{tab} = 0.03638$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• <u>Result</u>: Gender and priority to Empowerment of women and security are dependent.

3.Drinking Water:

Hypothesis:

H₀: Gender and priority to Drinking Water are independent.

H₁: Gender and priority to Drinking Water are dependent.

Priority to Drinking Water	1	2	3	Total
Female	87	15	6	108
Male	88	09	5	102
Total	175	24	11	210

Observations:

$$\chi^{2}_{cal} = 1.4782$$
 $\chi^{2}_{tab} = 0.1764$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• <u>Result:</u> Gender and priority to drinking water are dependent.

4. School Education:

Hypothesis:

H₀: Gender and priority to Drinking Water are independent.

H₁: Gender and priority to Drinking Water are dependent.

Priority to School education	1	2	3	Total
Female	86	17	5	108
Male	85	12	5	102
Total	171	29	10	210

• Observations:

$$\chi^{2}_{cal} = 2.06998$$
 $\chi^{2}_{tab} = 0.35019$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• <u>Result</u>: Gender and priority to school education are dependent.

5.Better law and order/Policing:

Hypothesis:

H₀: Gender and priority to Drinking Water are independent.

H₁: gender and priority to Drinking Water are dependent.

Priority to School education	1	2	3	Total
Female	89	14	5	108
Male	80	17	5	102
Total	169	31	10	210

Observations:

$$\chi^{2}_{cal} = 0.8987$$
 $\chi^{2}_{tab} = 0.02401$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• <u>Result:</u> Gender and priority to better law and order/Policing are dependent.

Ranking According to wealth:

1. Better Hospitals/Primary Healthcare:

Hypothesis:

H₀: wealth category and priority to Drinking Water are independent.

H₁: wealth category and priority to Drinking Water are dependent.

Priority to Better Hospitals	1	2	3	Total
Annual income above 6 lakhs	27	5	6	38
Annual income below 1 lakh	69	12	8	87
Annual income between 1 to 6 lakhs	71	9	5	85
Total	165	26	19	210

Observations:

$$\chi^{2}_{cal} = 4.6192$$
 $\chi^{2}_{tab} = 1.6631$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

 <u>Result</u>: Wealth category and priority to Better law and order/Policing are dependent.

2. Empowerment of women and Security

Hypothesis:

H₀: wealth category and priority to Empowerment of women and security are independent.

H₁: wealth category and priority to Empowerment of women and security are dependent.

Priority to Better Hospitals	1	2	3	Total
Annual income above 6 lakhs	24	6	8	38
Annual income below 1 lakh	68	12	7	87
Annual income between 1 to 6 lakhs	71	9	5	85
Total	163	27	20	210

• Observations:

$$\chi^{2}_{cal} = 4.7959$$
 $\chi^{2}_{tab} = 1.7635$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• <u>Result:</u> Wealth category and priority to Empowerment of women and security are dependent.

3. Drinking Water:

Hypothesis:

H₀: wealth category and priority to Drinking Water are independent

H₁: wealth category and priority to Drinking water are dependent.

Priority to Better Hospitals	1	2	3	Total
Annual income above 6 lakhs	27	5	6	38
Annual income below 1 lakh	68	10	7	87
Annual income between 1 to 6 lakhs	69	10	6	85
Total	164	25	19	210

• Observations:

$$\chi^{2}_{cal} = 0.7665$$
 $\chi^{2}_{tab} = 0.07373$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• <u>Result:</u> Wealth category and priority to Drinking Water are dependent.

4. School Education:

Hypothesis:

H₀: wealth category and priority to School Education independent.

H₁: wealth category and priority to School Education are dependent.

Priority to Better Hospitals	1	2	3	Total
Annual income above 6 lakhs	27	6	5	38
Annual income below 1 lakh	70	11	6	87
Annual income between 1 to 6 lakhs	67	12	6	85
Total	164	29	17	210

Observations:

$$\chi^{2}_{cal} = 1.1024$$
 $\chi^{2}_{tab} = 0.1444$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

• Result: Wealth category and priority to School Education are dependent.

5.Better law and order/Policing:

Hypothesis:

H₀: Wealth category and priority to better law and order/Policing are independent.

H₁: Wealth category and priority to better law and order/Policing are dependent.

Priority to Better Hospitals	1	2	3	Total
Annual income above 6 lakhs	28	5	5	38
Annual income below 1 lakh	67	14	6	87
Annual income between 1 to 6 lakhs	66	14	5	85
Total	161	33	16	210

• Observations:

$$\chi^{2}_{cal} = 2.3216$$
 $\chi^{2}_{tab} = 0.5396$
 $\chi^{2}_{cal} > \chi^{2}_{tab}$

 <u>Result:</u> Wealth category and priority to Better law and order/Policing are dependent

OVERALL CONCLUSION

- 1)Based on our data, we conclude that better hospitals, empowerment of women, drinking water, school education and better law and order are the top 5 voter's priorities among 17 given priorities.
- 2) Our study shows that according to voter's priorities governments performance is average to good.
- 3) The candidate is the most important factor influencing voting behaviour.
- 4) Maximum voters are aware that distribution of cash or money or gifts are illegal.
- 5) Gender and wealth category affects the voting behaviour and priorities to different governance issues

Reference

- Fundamentals of Mathematical Statistics by S.C. Gupta, V.K. Kapoor
- Testing of statistical hypothesis by Erich Leo Lehmann

SURVEY ON GOVERNANCE ISSUES AND VOTING BEHAVIOUR

RESPONDENT DETAILS

RESPONDENT DETAILS
1. Age
□ 18-25
□ 26-35
□ 36-45
□ 46-55
□ 55+
2. Gender
. □ Female
☐ Male
☐ Other
3. Residential location
□ Urban
☐ Rural
4. Educational background
☐ Primary
☐ High school
☐ Degree
☐ Post graduation
☐ Engineering
☐ Medical
☐ Uneducated

5.Occupation
□ Student
☐ Housewife
□ Agriculture
☐ Self employed
☐ Unemployed
□ Contractor
☐ Private service
☐ Government job
□ Retired
6.Caste category
☐ General
□ OBC
□ SC
□ST
\square NT
□ EWS
7. Wealth category
☐ Annual income above 6 lakh
☐ Annual income between 1 to 6 lakh
☐ Annual income below 6 lakh
45

VOTING BEHAVIOUR

8.Did you vote in the last election?						
□ Yes						
□No						
9.If you did not vote, why?						
☐ Missing name						
☐ Not interested						
☐ Not in town						
☐ Not registered yet						
☐ No leave						
10. What are the reasons we vote for	candidate.					
1-very important 2-important	3-not impo	ortant				
The candidate Candidate's party Candidate's cast / religion Chief ministerial candidate Distribution of cash,liquor,gifts,etc.		2 	3 			
11. Should someone with criminal assembly.☐ Yes☐ No	case be in	parliament	or in state			

12. Why do you think people vote for car	ndidate with cr	iminal record.	
Candidate is of similar cast/religion Candidate is powerful Candidate otherwise does good work Case against him are not serious Voter's don't know about criminal record	Yes	No	
13. Voter's awareness regarding crime ar	nd money in el	ections.	
Do you know that distribution cash/money/gifts are illegal?	Yes of □	No □	
Do you know that you can get information criminal records of candidates? Are you aware of instances of distribution			
cash/money/gifts in your constituency in leection?	of \square		
	¥		

VOTER'S PRIORITY

14. What are the issues that are important to you in an election?

From the list of issues listed on the below, can you mention issues which account to you the most important for your area.

1-very important	2-important		3-not important	
Better employment oppo Better hospitals/primar centers	-	1 	2 □	3
Better law and order/po	licing			
Better public transport				
Better roads				
Drinking water				
Electricity for domestic u	ise			
Empowerment of wome	n and security			
Awareness about corrup	tion			
School education				
Subsidized food distribut	tion/ration			
Terrorism				
Training for jobs				
Lower-food price for con	sumers			
Strong defence/military				
Better garbage clearance	2			
Encroachment of public	land/lakes etc			

GOVERNMENT'S PERFORMANCE

15. How has the government performed on the issues that are important to you?

From the list of issues listed below, mention issues in which the performance of the government in the area has been Good/Average/Bad.

1-Good	2-Average 3-Bac	ł		
		1	2	3
Better er	nployment opportunity	Ц	Ц	
Better	hospitals/primary healthcare			
centers				
Better la	w and order/policing			
Better pu	ublic transport			
Better ro	ads			
Drinking	water			
Electricit	y for domestic use			
Empowe	rment of women and security			
Awarene	ess about corruption			
School e	ducation			
Subsidize	ed food distribution/ration			
Terrorisn				
Training	for jobs			
	od price for consumers			
	efence/military			
and vonitive will of	arbage clearance			
	ment of public land/lakes etc			