Maharashtra Assembly Election 2019

Niphad Voter List Analysis

121,Niphad Assembly Maharashtra

Index Page

1. Create Index page with Sr no & Topic Name.
2. Create Page navigation for each Topic.
3. Use shape for creating this.
4. No further data needed for this page.

Dataset

- Form 20 Data
- Voterlist dataset with all required column.
- PS station Name & No with Lattitude & Longitude Boothwise.
- Form 20 Data in specific format

My format for Form 20

PS No	Candidate Names	Votes	Position	Total	Party
1	Uttamrao Dashrath Nirb	1	7	786	BSP
1	Saiyyad Kalim Liyakat	2	6	786	IND
1	Santosh Vishnu Aherrac	3	4	786	VBA
1	Nota	3	5	786	NOTA
1	Kadam Yatin Raosaheb	130	3	786	BVA
1	Anil Sahebrao Kadam	491	1	786	SHS
1	Bankar Diliprao Shankar	156	2	786	NCP
2	Saiyyad Kalim Liyakat	1	7	819	IND
2	Santosh Vishnu Aherrac	2	5	819	VBA
2	Nota	2	6	819	NOTA
2	Uttamrao Dashrath Nirb	4	4	819	BSP
2	Kadam Yatin Raosaheb	96	3	819	BVA
2	Anil Sahebrao Kadam	269	2	819	SHS
2	Bankar Diliprao Shankar	445	1	819	NCP
3	Santosh Vishnu Aherrac	2	5	643	VBA
3	Saiyyad Kalim Liyakat	0	7	643	IND
3	Uttamrao Dashrath Nirb	0	6	643	BSP
3	Nota	3	4	643	NOTA
3	Kadam Yatin Raosaheb	63	3	643	BVA
3	Anil Sahebrao Kadam	386	2	643	SHS
3	Bankar Diliprao Shankar	389	1	643	NCP
4	Santosh Vishnu Aherrac	1	7	1028	VBA
4	Uttamrao Dashrath Nirb	2	6	1028	BSP
4	Saiyyad Kalim Liyakat	3	5	1028	IND
4	Nota	11	4	1028	NOTA

*Write Party Name manually from Indiavotes in From 20 Dataset.

Voterlist dataset

- AC NO (Assembly Number)
- Part No (Village Number)
- Part Name V1 (Village Name Marathi)
- Part Name (Village Name)
- Area Category (Rural or Urban)
- PS building Number (Polling station building Number)
- Booth Location (Location of boorth)
- Voter House Number (House number of voters)
- Voter name
- Voter last name
- Caste
- Religion
- Category (General / OBC /SC /ST etc.)
- Epic No (Voter ID number)
- Gender
- Age
- Section No (Area No)
- Section Name (Area Name)
- Mobile Number

Form 20 Dataset

- Adjust according your assembly.
- PS no (Booth No)
- Candidate column with their votes.

Overall Voter Analysis

- This overall analysis divide in 3 part (Religion , Caste, Surname).

  Create heading For the page and add 3 button which will redirect user to the particular part.
  Total voters , Male voters , Female Voters are Display in all pages with Card Visual.
  Filter are change according part but village are same filter in our all Part.

- Overall Religion
  Filter For Village and PollingStation and Religion.
  Population Pyramid Using Stacked Bar Chart.
  Display Village with Voters.
  Religion Wise voters using stacked bar chart.
  Word map for Caste with their voters (Wordcloud 2.3.2.0).

- Overall Cast
  Filter For Village, Category and Caste.
  Population Pyramid Using Stacked Bar Chart.
  Display Village with Voters.
  Caste Wise voters using stacked bar chart.
  Word map for Surname with their voters (Wordcloud 2.3.2.0).

- Overall Surname
  Filter For Village and PollingStation.
  Population Pyramid Using Stacked Bar Chart.
  Display Village with Voters.
  Treemap for surname and their voters.
  Word map for Surname with their voters (Wordcloud 2.3.2.0).

  NOTE :- All the Visual must be interactive with the filter and with other visuals in appropriate manner.

  Wordcloud 2.3.2.0 : - Imported Visual from Extra visual

Measure

1. **Age Group (Column) (Voterlist)**

```
Age Group =
IF('Niphad WIth LL'[AGE] < 18, "Under 18",
IF('Niphad WIth LL'[AGE] <= 22, "18-22",
IF('Niphad WIth LL'[AGE] <= 27, "23-27",
IF('Niphad WIth LL'[AGE] <= 32, "28-32",
IF('Niphad WIth LL'[AGE] <= 37, "33-37",
IF('Niphad WIth LL'[AGE] <= 42, "38-42",
IF('Niphad WIth LL'[AGE] <= 47, "43-47",
IF('Niphad WIth LL'[AGE] <= 52, "48-52",
IF('Niphad WIth LL'[AGE] <= 57, "53-57",
IF('Niphad WIth LL'[AGE] <= 62, "58-62",
IF('Niphad WIth LL'[AGE] <= 67, "63-67", "Over 67")))))))))))
```

2. **Female (Measure) (Voterlist)**

```
Female = CALCULATE(COUNTROWS('Niphad WIth LL'), 'Niphad WIth LL'[GENDER] = "Female")
```

3. **Male (Measure) (Voterlist)**

```
Male = CALCULATE(COUNTROWS('Niphad WIth LL'), 'Niphad WIth LL'[GENDER] = "Male")
```

4. **MaleVoters (Measure) (Voterlist)**

```
Male voters = -[Male]
```

*All these measure will use in population pyramid.

GEO Analysis

- Map which represent booth point and the point color same as winner party and the size of point as per votes from that booth.
- Village name and winner party as filter.

Adjust measure as per your party.

Measure

*Party Voteshare.

1. **NCP Voteshare (Measure) (form 20)**

```
NCP voteshare = 'form 20'[Bankar Diliprao Shankarrao] / 'form 20'[Total]
```

2. **SHS Voteshare (Measure) (form 20)**

```
SHS Voteshare = 'form 20'[Anil Sahebrao Kadam] / 'form 20'[Total]
```

3. **BVA Voteshare (Measure) (form 20)**

```
BVA Voteshare = 'form 20'[Kadam Yatin Raosaheb] / 'form 20'[Total]
```

4. **VBA Voteshare (Measure) (form 20)**

```
VBA voteshare = 'form 20'[Santosh Vishnu Aherrao] /'form 20'[Total]
```

5. **BSP Voteshare (Measure) (form 20)**

```
BSP voteshare = 'form 20'[Uttamrao Dashrath Nirbhavane] / 'form 20'[Total]
```

6. **BSP Voteshare (Measure) (form 20)**

```
IND voteshare = 'form 20'[Saiyyad Kalim Liyakat] / 'form 20'[Total]
```

7. **Winning Party (Column) (form 20)**

```
  WinningParty =
VAR MaxShare = [MaxVoteSharePerRow]
RETURN
SWITCH(
    TRUE(),
    [NCP voteshare] = MaxShare, "NCP",
    [SHS Voteshare] = MaxShare, "SHS",
    [VBA voteshare] = MaxShare, "VBA",
    [BVA Voteshare] = MaxShare, "BVA",
    [BSP Voteshare] = MaxShare, "BSP",
    [IND voteshare] = MaxShare, "IND",
    "No Winner"
)
```

NCP Booth

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- Village name, Strong NCP Booth ,Weak NCP Booth, High Turnout Opposite, High Turnout Favour.

Measure

1. **Strong NCP booth (Column) (Form20)**

```
Strong NCP =
    IF(
    'form 20'[NCP voteshare]>0.5,"Yes","No"
    )
```

2. **Weak NCP Booth (Column) (Form20)**

```
Weak NCP = IF('form 20'[WinningParty] <> "NCP" ,"Yes","No")
```

3. **Total Voters (Measure) (voterlist)**

```
Total Voters = COUNTROWS('Niphad WIth LL')
```

4. **Turnout (Column) (Form20)**

```
Turnout = 'form 20'[Total] / [Total Voters]
```

5. **High Turnout Opposite (Column) (Form20)**

```
High turnout opposite = IF('form 20'[Turnout]> 0.6 && 'form 20'[NCP voteshare]<0.2,"Yes","No")
```

6. **High Turnout Favour (Column) (Form20)**

```
High turnout favour = IF('form 20'[Turnout]> 0.6 && 'form 20'[NCP voteshare]>0.51,"Yes","No")
```

7. **Total Voters (Measure) (voterlist)**

```
Total Voters = COUNTROWS('Niphad WIth LL')
```

Put this measure as tile filter.

SHS Booth

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- Village name, Strong SHS Booth ,Weak SHS Booth, High Turnout Opposite, High Turnout Favour.

Measure

1. **Strong SHS booth (Column) (Form20)**

```
Strong SHS =
IF(
   'form 20'[SHS voteshare]>0.5,"Yes","No"
)
```

2. **Weak SHS Booth (Column) (Form20)**

```
Weak SHS = IF('form 20'[WinningParty] <> "NCP" ,"Yes","No")
```

3. **High Turnout Opposite (Column) (Form20)**

```
High turnout opposite = IF('form 20'[Turnout]> 0.6 && 'form 20'[SHS voteshare]<0.2,"Yes","No")
```

4. **High Turnout Favour (Column) (Form20)**

```
High turnout favour = IF('form 20'[Turnout]> 0.6 && 'form 20'[SHS voteshare]>0.51,"Yes","No")
```

Put this measure as tile filter.

BVA Booth

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- Village name, Strong BVA Booth ,Weak BVA Booth, High Turnout Opposite, High Turnout Favour.

Measure

1. **Strong BVA booth (Column) (Form20)**

```
Strong BVA =
IF(
   'form 20'[BVA voteshare]>0.5,"Yes","No"
)
```

2. **Weak BVA Booth (Column) (Form20)**

```
Weak SHS = IF('form 20'[WinningParty] <> "BVA" ,"Yes","No")
```

3. **High Turnout Opposite (Column) (Form20)**

```
High turnout opposite = IF('form 20'[Turnout]> 0.6 && 'form 20'[BVA voteshare]<0.2,"Yes","No")
```

4. **High Turnout Favour (Column) (Form20)**

```
High turnout favour = IF('form 20'[Turnout]> 0.6 && 'form 20'[BVA voteshare]>0.51,"Yes","No")
```

Put this measure as tile filter.

Booth with women/men than normal Analysis

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- Village name, Man with NCP, Women With NCP , Man with SHS , Women With SHS, Man with BVA, Women with BVA.

1. **Total Population (Measure) (Voterlist)**

```
TotalPopulation = [Male] + [Female]
```

2. **Male % (Measure) (Voterlist)**

```
Male % = DIVIDE([Male], [TotalPopulation],0)
```

3. **Female % (Measure) (Voterlist)**

```
Female % = DIVIDE([Female], [TotalPopulation],0)
```

4. **Male % (Column) (Form20)**

```
Male % = DIVIDE('form 20'[Male],[TotalPopulation],0)
```

5. **Female % (Column) (Form20)**

```
Female % = DIVIDE('form 20'[Female],[TotalPopulation],0)
```

6. **Avg Male (Column) (Form20)**

```
Avg Male = AVERAGE('form 20'[Male %])
```

7. **Avg Female (Column) (Form20)**

```
Avg Female = AVERAGE('form 20'[Female %])
```

8. **MaleDeviation (Measure) (Voterlist)**

```
MaleDeviation = [Male %] - MAX('form 20'[Avg Male])
```

9. **FemaleDeviation (Measure) (Voterlist)**

```
FemaleDeviation = [Female %] - MAX('form 20'[Avg Female])
```

10. **Male with NCP (Column) (Form20)**

```
Male with NCP = IF([MaleDeviation] >= 0.02 && 'form 20'[WinningParty] = "NCP","Yes","No")
```

11. **Male with SHS (Column) (Form20)**

```
Male with SHS = IF([MaleDeviation] >= 0.02 && 'form 20'[WinningParty] = "SHS","Yes","No")
```

12. **Male with BVA (Column) (Form20)**

```
Male with BVA = IF([MaleDeviation] >= 0.02 && 'form 20'[WinningParty] = "BVA","Yes","No")
```

13. **Female with NCP (Column) (Form20)**

```
Female with NCP = IF([FemaleDeviation] >= 0.02 && 'form 20'[WinningParty] = "NCP","Yes","No")
```

14. **Female with SHS (Column) (Form20)**

```
Female with SHS = IF([FemaleDeviation] >= 0.02 && 'form 20'[WinningParty] = "SHS","Yes","No")
```

15. **Female with BVA (Column) (Form20)**

```
Female with BVA = IF([FemaleDeviation] >= 0.02 && 'form 20'[WinningParty] = "BVA","Yes","No")
```

Booth With Youngsters

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- VIillage name, Youngster with NCP, Youngster with SHS, Youngster with BVA and slicer for youngster % as filter.

1. **Young in 2019 (Column)(Voterlist)**

```
young in 2019 = IF('Niphad WIth LL'[AGE] >=23 && 'Niphad WIth LL'[AGE]<= 35,"Yes","No")
```

2. **Young 19 (Column) (Form 20)**

```
Young 19 =
CALCULATE(
   COUNT('Niphad WIth LL'[EPIC_NO]),
   'Niphad WIth LL'[young in 2019] = "Yes"
)
```

3. **Younger voter % (Measure)(Voterlist)**

```
Younger voter % = DIVIDE([YoungCount], COUNT('Niphad WIth LL'[EPIC_NO]),0)
```

4. **Young 19 %(Column) (Form 20)**

```
Young 19 % = DIVIDE('form 20'[Young 19],[TotalPopulation],0)
```

5. **Young With NCP(Column) (Form 20)**

```
Young NCP = IF([Younger voter %] > 0.3 && 'form 20'[WinningParty] = "NCP" && 'form 20'[NCP voteshare] > 0.45 ,"Yes","No")
```

6. **Young With SHS(Column) (Form 20)**

```
Young NCP = IF([Younger voter %] > 0.3 && 'form 20'[WinningParty] = "SHS" && 'form 20'[NCP voteshare] > 0.45 ,"Yes","No")
```

7. **Young With BVA(Column) (Form 20)**

```
Young BVA = IF([Younger voter %] > 0.3 && 'form 20'[WinningParty] = "BVA" && 'form 20'[NCP voteshare] > 0.45 ,"Yes","No")
```

Village With Voteshare

- Upper side Filter with village name.
- Card for NCP and SHS Voteshare.
- Map for booth.

1. NCP Vote Share (Measure) (form20)

```
NCP Vote Share =
DIVIDE(
    SUM('form 20'[Bankar Diliprao Shankarrao]),
    [Total Votes],
    0
)
```

2. SHS Vote Share (Measure) (form20)

```
SHS Vote Share =
DIVIDE(
    SUM('form 20'[SHS candidate]),
    [Total Votes],
    0
)
```

3. BVA Vote Share (Measure) (form20)

```
BVA Vote Share =
DIVIDE(
    SUM('form 20'[BVA Candidate]),
    [Total Votes],
    0
)
```

4. NCP village (Measure) (form20)

```
NCP win = IF([NCP Vote Share]> [SHS Vote Share] && [NCP Vote Share] >[BVA Vote Share],"Win","Lose")
```

5. SHS village

```
SHS win = IF([SHS Vote Share]> [SHS Vote Share] && [NCP Vote Share] >[BVA Vote Share],"Win","Lose")
```

Close contested Booth

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- Winner party as tile filter and margin % as slicer Filter.

1 Second Candidate Voteshare (Measure)(Form20)

```
SecondPositionVoteShare =
CALCULATE(
    MAXX(
        FILTER(
            UNION(
                SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[NCP voteshare]),
                SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[SHS Voteshare]),
                SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[BVA Voteshare]),
                SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[VBA voteshare])
            ),
            [VoteShare] < [WinnerVoteShare]
        ),
        [VoteShare]
    )
)
```

2 Winner Candidate Voteshare (Measure)(Form20)

```
WinnerVoteShare =
MAXX(
    UNION(
        SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[NCP voteshare]),
        SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[SHS Voteshare]),
        SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[BVA Voteshare]),
        SELECTCOLUMNS('form 20', "VoteShare", 'form 20'[VBA voteshare])
    ),
    [VoteShare]
)
```

3 Margin Diffrence (Column)(Form20)

```
VoteShareDifference =
[WinnerVoteShare] - [SecondPositionVoteShare]
```

Candidate Rank

- Left side all the filter and booth count with Total booth.
- Right side map which adjust as per filter.
- Candidate name as dropdown , position as drop down with single select from Form 20 my format.
- Table show rank with the booth and party name as per candidate name.
- In map use position as legend and assign proper color.

Comparison

- Table with the PS no, PS address , Voteshare and winning party
- Apply conditional formatting in Winning party.
- Use column chart for voteshare category.

1 NCP Voteshare Category (Column) (Form 20)

```
NCP Vote Share Category =
SWITCH(
    TRUE(),
    [NCP voteshare] <= 0.3, "0% to 30%",
    [NCP voteshare] > 0.3 && [NCP voteshare] <= 0.6, "31% to 60%",
    [NCP voteshare] > 0.6, "Above 60%",
    "No Data"
)
```

2 SHS Voteshare Category (Column) (Form 20)

```
SHS Vote Share Category =
SWITCH(
    TRUE(),
    [SHS Voteshare] <= 0.3, "0% to 30%",
    [SHS Voteshare] > 0.3 && [SHS Voteshare] <= 0.6, "31% to 60%",
    [SHS Voteshare] > 0.6, "Above 60%",
    "No Data"
)
```

3 BVA Voteshare Category (Column) (Form 20)

```
BVA Vote Share Category =
SWITCH(
    TRUE(),
    [BVA Voteshare] <= 0.1, "0% to 10%",
    [BVA Voteshare] > 0.1 && [BVA Voteshare] <= 0.3, "10% to 30%",
    [BVA Voteshare] > 0.3, "Above 30%",
    "No Data"
)
```

Geo Analysis DT

- Total voters, Male voters and female voters in crad.
- Population pyramid
- Surname with voters.
- Section name , house no and voters
- Winner candidate and their party in shape.
- Pie chart for voters age category.
- Map
- Result of that booth.(Winner :- Greeen, Looser :- Red) In matrix visual.
- Add Latitude & longitude field in the Drill Through for this page.

1 Age category (column) (voterlist)

```
 Age Category =
SWITCH(
   TRUE(),
   'Niphad WIth LL'[AGE] < 35, "Young",
   'Niphad WIth LL'[AGE] >= 35 && 'Niphad WIth LL'[AGE] < 60, "Middle Age",
   'Niphad WIth LL'[AGE] >= 60, "Old",
   "Unknown"
)
```

2 Voteshare (Measure) (My format form 20)

```
voteshare = DIVIDE(SUM('Form 20 Format'[Votes] ), SUM('Form 20 Format'[Total] ),0)
```

Map Tooltip

- Use dynamic Text Box for display Data.