**Random Sampling of Villages in District**

Method – Probability Proportional to Size (of Village)

Number of villages to be selected per district – 30 + 5

Reference data – District Census Data

Steps:

1. From census data sheet of the district, extract desired information as below

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| --- | --- | --- | --- |
| DISTRICT | SUB-DISTRICT | VILLAGE | No\_HH |
|  |  |  |  |
|  |  |  |  |
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1. Insert a **Serial Number Column** before district and number it starting from 1 downward
2. Add another column next to No\_HH column for cumulative **number of households,** check thatlast figure in this column match with total number of households in the district
3. Add two more columns next to cumulative column related to No\_HH, it is range of households; first column is the lower value and second column is the high value for assigning number to each households in the district, check thatlast figure in this column match with total number of households in the district
4. Select actual No\_HH column and look for **SUM,** total number of households in the district
5. Put cursor in any blank cell to use command, **=RANDBETWEEN** (1,TOTAL HOUSEHOLD); for e.g. in Kushinagar (1,533834)
6. Press **ENTER,** it generates for you the first random household number.
7. Look at the two range columns and find in which row this random value falls.
8. Highlight that village name **YELLOW** and mark it as 1, it is your first selected village
9. Go to the cell where RANDBETWEEN formula is functional & PRESS F9
10. It would give you another random number, accordingly highlight another village and mark it as your second selected village
11. Repeat the exercise till you select 35 villages
12. If you end up getting already selected village, press **F9** and keep moving
13. **Sort** village column by highlighted colour and copy 35 selected villages on another sheet with following columns – Sr\_No, DISTRICT, SUB-DISTRICT and No\_HH. **DONE.**