



**ROUND-1  
AUGUST 2020**

# **COVID-19 SERO SURVEY IN HARYANA**



**HEALTH DEPARTMENT,  
HARYANA**

# **Sero-prevalence of anti-SARS-CoV-2 IgG antibodies in Haryana, India: a Population-Based Cross Sectional Study**

**August 2020**

**Dr. Usha Gupta**

**Director IDSP, Director General of Health Services, Haryana**

**&**

**Dr. Arun K Aggarwal, Professor**

**Dr. Vivek Sagar, Assistant Professor**

**Department of Community Medicine & School of Public Health, Postgraduate Institute  
of Medical Education and Research, Chandigarh**

## Acknowledgments

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**Dr. Usha Gupta**  
**Director Health Services IDSP**  
**O/o Director General Health Services Haryana**

## Executive Summary

Sero-surveillance for anti-SARS-CoV-2 IgG antibodies was done in all 22 districts of Haryana. Total of 19611 houses were visited, 18556 (96.2%) gave consent and 18905 blood samples were collected and tested. Stratified multistage sampling method was adopted. Sample size was calculated with estimated prevalence of 3% with 2% precision, 95% confidence interval and design effect of 3. Estimated sample size of 850 was sufficient to give estimates at district level. Sample was divided into 16 clusters in each district, with 60% sample for rural areas and 40% for urban areas. Mobile app surveyman.ankaha.com was used to capture realtime data at household level and to capture onsite supervisory data. Laboratory reports were also uploaded using the app. The observation that blood sample collection was little more than the number of persons who gave consent, may be due to the reason that some surveyors were not able to upload the survey forms by using the mobile app.

PGIMER Chandigarh team did planned the project, provided training using digital tools, monitored and mentored the district and state teams, developed and executed quality assurance mechanisms, did data analysis and report writing. State health department provided all resources including human resources, laboratory logistics, and overall leadership for execution of such massive survey. All data collection was done by the district teams. All laboratory testing was done by the district laboratories.

Overall seropositivity in the state was 8%. There was huge district wise variation. Prevalence 25% in Faridabad, 20% in Nuh. Four districts had prevalence between 10% to 13%. Eight districts had prevalence between 5-10%. There were rural-urban variations and male female variations within the districts. For example, In Faridabad prevalence was 22% in rural areas and 31% in urban areas. In Nuh, it was 14% in rural and 30% in urban areas. In Gurugram prevalence was 14% among females and 7% among males, in Hisar it was 6% among males and 2% among females, In Nuh, it was 19% among females and 21% among males and in Panipat it was 6% among females and 1% among males.

Seropositivity observed in the survey need to be interpreted with caution. There was no external quality control for laboratory testing. Although, use of mobile app, that forced to capture GPS locations, and that clusters were pre-selected by us, gives assurance that sample was representative; however, with the observation that one district had started the sampling before the official launch of the project, raises question on the representativeness of the survey in that district. Furthermore, for estimation of true prevalence, validity of the ELISA test used in the survey needs to be factored.



**Arun K Aggarwal**

Professor

Email: [aggak63@gmail.com](mailto:aggak63@gmail.com)

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# **Sero-prevalence of anti-SARS-CoV-2 IgG antibodies in Haryana, India: a Population-Based Cross Sectional Study**

## **Background**

Corona virus disease 2019 (COVID-19) is a recently emerged infectious disease caused by novel corona virus. It is also called as the severe acute respiratory syndrome corona virus 2 (SARS-CoV-2). It is an ongoing pandemic which originated from Wuhan City of Hubei Province of China and spread rapidly to the rest of the world (1). The World Health Organization (WHO) has declared this disease as a public health emergency of international concern. Till 29th July 2020, 16558289 cases of COVID-19 and 656093 deaths have been reported globally (2).

Seeing at the current scenario of pandemic spread of this disease which has entered in to community transmission phase in each country, research is not only focused on the development of treatment and preventive (vaccine) strategies but huge efforts are also being made to estimate the exposure of population by conducting seroprevalence studies (3,4,5 &6). Due to the high proportion of asymptomatic or mild infections, data restricted to laboratory-confirmed cases do not capture the true extent of the spread or burden of the virus in a population. Therefore, serological detection of specific antibodies against SARS-CoV-2 can better estimate the true number of infections. From the rest of world seroprevalence data have started to emerge (3,4,5) but from India, seroprevalence data is not available yet. Only recently a report is published from Delhi about 11 districts which showed the seroprevalence of 23% and similarly a report from Mumbai reported seroprevalence 33%. Since this limited unpublished data cannot represent the seroprevalence status for whole country, therefore state wise seroprevalence surveillance is a need of the hour. Hence on the proposal of Haryana Govt state-wise seroprevalence study was done to the estimate the prevalence of anti-covid IgG antibodies in the state.

## Aim

To undertake the community based state level sero-surveillance to monitor the exposure of general population to SARS-Cov2 infection in Haryana and to establish such system for future monitoring

## Objective:

To estimate the state level seroprevalence of anti-SARS-CoV-2 IgG antibodies in Haryana.

## Methodology

Study design was cross sectional with stratified multi-stage random sampling.

**Sample Size:** Sample size was estimated at district level. With expected prevalence (p) of 3%, absolute precision of 2% (1-5%), 95% confidence level, design effect 3, sample size came out to be 839. (~ 850) per district. So it was planned to cover 850 participants from each district.

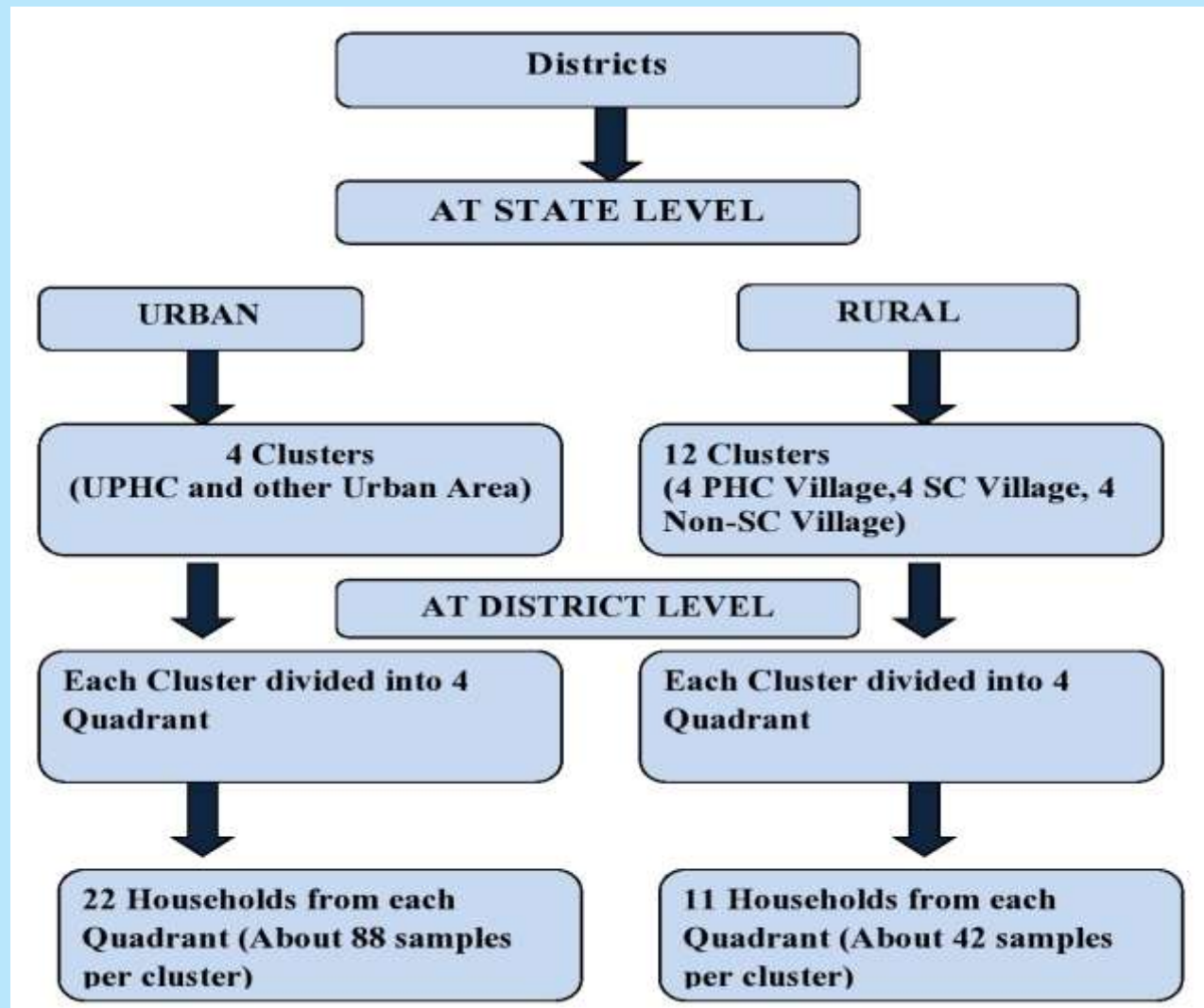
**Sampling Design:** Stratified multistage random sampling was done. Total sample of 850 was divided into two stratas: Rural and Urban. Since Haryana state has ratio of rural to urban is roughly 60: 40, so these 850 participants were divided into two clusters: 500 Rural and 350 Urban.

To achieve this, multistage sampling was done. In first stage, from each district four PHCs were selected using simple random sampling using random numbers generated from computer. In second stage from each PHC, one Sub-centre was selected using simple random sampling using random numbers generated from computer. In third stage, one non SC village was selected randomly by lottery method. For SCs, where there was no non-sub-centre village, an adjoining non sub-center village was selected randomly. As a sub-centre is also located within each sub-centre, while selecting sub-centre village, such PHC level sub-centres were excluded from the sampling.

Each of PHC village, Sub-centre village and non-sub-centre village constituted a cluster. Thus there were 12 clusters for rural areas per district. Sample size per cluster was about 44. Detail of clusters that were selected is given in table 1. For urban areas, total sample of 350 was divided into four clusters, with sample size of about 88 per cluster. Detail of selected urban clusters is given in Table 2. District wise detail of actual sample size achieved in various clusters is given under results in household survey section.



## SAMPLING FRAME



### Selection of Houses and Participants in each Cluster

Each selected cluster was geographically divided into roughly four quadrants. Local maps available with the districts were used. Some districts used Google maps for the same. Middle of each quadrant will be marked on the map or with the GPS location. Thus, four random GPS locations in each cluster were selected and shared with the survey teams. Survey teams visited consecutive houses from this point till required sample size for that location was completed. It was 11 houses per GPS location in each cluster in rural cluster and 22 in urban cluster.

One individual in each selected household was selected using table below.

Number of Adult Women in Household	Number of Adults in the household			
	1	2	3	4 or more
0	Man	Youngest Man	Youngest Man	Oldest Man
1	Woman	Woman	Oldest Man	Woman
2		Oldest Woman	Man	Oldest Man
3			Youngest Woman	Man
4 or more				Oldest woman

The above methodology was chosen to maintain uniformity and comparability with the guidelines adopted during national level sero-surveillance that was done in the recent past.

For sake of clarity, on demand of the districts, above table was extended for adults more than for, and women more than four as given below:

Women	Total Adults				
	5	6	7	8	9
1	Woman	Woman	Woman	Woman	Woman
2	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
3	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
4	Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
5	Oldest Woman	Man	Oldest Man	Oldest Man	Oldest Man
6	x	Oldest Woman	Man	Oldest Man	Oldest Man
7	x	x	Oldest Woman	Man	Oldest Man
8	x	x	x	Oldest Woman	Man
9	x	x	x	x	Oldest Woman

**Study duration:** Study was planned for Two months. However, on the insistence and initiative of the state study was completed in One month's time from conceptualization of the project till submission of this report.

**Inclusion criteria:** Age above 18 years.

**Exclusion Criteria:** Age blow 18 years, person with current influenza like illness and person who did not give consent.

**Role** of Department of Community Medicine & SPH of PGIMER Chandigarh and the State Health Department is given in the Annexure 1.

## **Study Methods**

### **Study Team:**

For each cluster there was one team constituting of one medical officer, one HCW of ANM/ LHV level preferable of the selected health facility, and one laboratory technician or trained phlebotomist. There was one supervisor for 2 clusters. These teams were constituted by the districts under the direction of the state.

**Training:** Study team was given training using digital mode about the following:

1. Overall objectives of survey
2. How to select the GPS cluster point within selected cluster
3. How to select first house
4. How to select an adult using sampling table
5. How to approach the family and take consent
6. How to fill the form using digital mode
7. How to prepare blood sample collection kit including vacutainers ( or syringe and needle), bar codes ( or other labeling stickers and permanent markers), swabs, tourniquets, and biomedical waste management materials ( color coded bags, and strings to tie the bags)
8. How to draw blood sample, label, transport and store

State had created two Whatsapp groups with about half the districts in each group. Two digital trainings were organized. State organized these trainings using Jio app meeting application. In first training, we oriented the team to all 8 points as mentioned above. They were introduced to the data collection tool prepared in mobile based app surveyman.ankaha.com. Screenshots of the tool were presented in power-point.

Followed by this, all surveyors and supervisors were helped to download the mobile app, register on the app and see the survey form on their mobile phones.

After this, a second training was done to give live demonstration of the mobile app to them.

State had informed us that a basic training has already been given by the concerned districts and state on the laboratory procedures. However refresher training was done to bring everyone on the same page.

### **Procedure of collection of Sample:**

The study teams visited the randomly selected households and briefed them about the survey. For each house, basic information on Age and sex of each family member was recorded. Verbal consent was taken for their willingness to participate in the study. Study teams were given audio recording by the PI, on how to take consent, so that it can refresh the skills of the surveyors on taking consent. Even this could use by the surveyors directly in case they feel hesitant in speaking out. All SOPs are given in the Annexure 2.

One consenting adult was included in the study. For consenting adults, team filled the questionnaire and recorded information on basic demographic details, exposure history to lab confirmed COVID-19 cases, symptoms suggestive of COVID-19 in the preceding month, and clinical history. Doctor in the team was supposed to ask the questions and the other person was supposed to record the form. At the end of interview, doctor was supposed to cross check the form for its completeness and correctness. At the end of the interview, laboratory technician drew 3ml blood, labeled it and transported to the district lab for storage and processing.

After completing one house, team ensured that the bleeding from the punctured site has stopped. Swab that was used to stop bleeding was collected by the team along with other biomedical waste that was generated in the house. If required a fresh swab was applied for psychological satisfaction.

Team completed one GPS location point in the cluster and then moved to the next point. One cluster was supposed to be completed in one day in both rural and urban areas. All districts completed all the clusters within 3 days despite heavy rains in many districts on the first day.

At the end of sample collection from the cluster, all samples were immediately transported to the designated laboratory for processing.

**ELISA:** ELISA kit and methodology generated for estimation of IgG antibodies was used as per guidelines of ICMR (7). All data was entered in an android mobile application sureyman.ankaha.com. Analysis of data and results was done to give the estimates of seroprevalence at district and state level. Exploratory results are also presented to give positivity rate area wise (Rural/ Urban), and Gender-wise (Male/Female). District wise and cluster-wise sero positivity has also been given in this report.

**Expected outcome:** The population based sero-epidemiological study has helped to determine the burden of COVID 19 infection at the community level in the state of Haryana.

## **Human Participant Protection and Ethics Committee Approvals**

Since state is undertaking Sero-surveillance as part of the national guidelines and districts are supposed to do this in routine to take evidence based public health actions, Institute Ethic Committee's tentative approval of exemption was obtained. This type of surveillance is exempted from the ethics committee approvals.

Participants were informed about the study objectives, importance of the survey, and interpretation of positive result. Informed verbal consent was administered. They were free to participate or refuse. As laboratory result has now become available, after the state approves the report, district nodal persons will communicate results on phone and will counsel the participant to take further actions as per the guidelines.

## **Training at State and District level**

- a) Training of Sero survey and Demonstration on use of ELISA kits on 6th August, 2020.

On 6 August, 2020 all the DSOs, Microbiologist and Medical Officers in-charges participated in the online training. Information of detailed Sero Survey study was given. Information of District wise distribution of clusters and division of clusters in Quadrant was given. Distribution of team members and supervision of the team was also explained. Demonstration on use of Elisa Kits was given by technical team.

- b) On 10<sup>th</sup> August, 2020 online Launch cum Review Meeting of Sero Survey.

On 10 AUGUST, 2020 online LAUNCH of Sero Survey was held under the chairmanship of Hon'ble Health Minister Sh. Anil Vij. On this Occasion Worthy ACS Sh. Rajeev Arora gave information on Sero Survey. Presentation on Sero Survey was given Dr Usha Gupta DHS(IDSP).



**Training conducted by Dr. Usha Gupta Director Health Services (IDSP) on 6<sup>th</sup> August 2020**



**Launch of Sero Survey by Sh. Anil Vij, Hon'ble Health Minister, Haryana on 10<sup>th</sup> August 2020**



**Sh. Rajeev Arora IAS, Worthy Additional Chief Secretary, Health Department speaking on Sero-Survey Sh. Ashok Meena IAS, Commissnor FDA and Dr. Usha Gupta Director Health Services (IDSP) on 10 august, 2020.**



- c) Online Training on Sero Survey with Collaboration with Department of Community Medicine and School of Public Health PGIMER, Chandigarh on 11th August, 2020. Training was given to DSOs, District Supervisors, Nodal officers and Medical officer of Sero Survey team.

**Sero Survey Training through VC by Dr Usha Gupta, Director Health Services (IDSP) & Dr. Arun Aggarwal, Professor, Community Medicine and SPH, PGIMER, Chandigarh**





- d) Online Demonstration of digital form and address to queries on 15<sup>th</sup> August 2020. On 15<sup>th</sup> August online demonstration of Surveyman app was given in two batches to Medical Officers in the teams and District Supervisors. The stepwise entry of data was explained using dummy entries.
- e) Training to State RRT Members on 18<sup>th</sup> August, 2020 by Dr. Usha Gupta. Details of the Sero Survey study was explained. Information regarding app-based tool, clusters of all the Districts, forms and formats were given. Information about what and how to supervise the clusters was also given.

**Sero Survey Training to State RRT Members by Dr Usha Gupta, Director Health Services (IDSP) On 18 August, 2020**

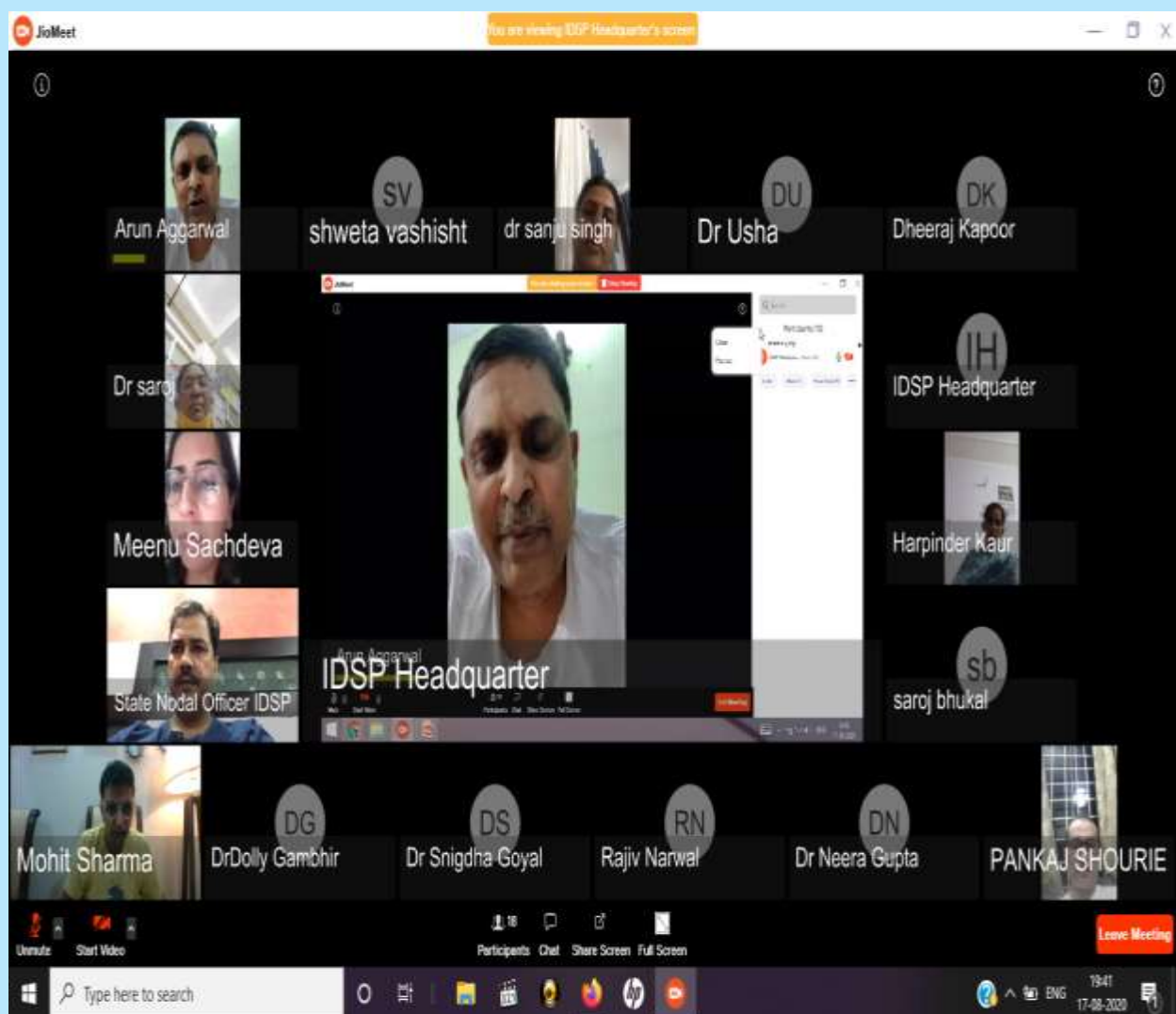
## **FIELD ACTIVITIES OF SERO SURVEY**

On 17<sup>th</sup> of August 2020 Pilot testing was done in Panchkula District. Briefing of it was done in the evening through Video Conferencing. Explanation and solutions were given by Dr. Arun Aggarwal Prof. Community Medicine and SPH on issues faced by the team during the cluster activities. Points observed by the PGI supervisors were also discussed and corrective action for it was taken. The participants of the VC included DHS IDSP, CMO Panchkula, NO, District supervisors, Medical officers and other staff of State IDSP cell and PGI Team.



## **Briefing of Pilot Testing in the District Panchkula by Dr. Usha Gupta, DHS (IDSP) and Dr. Arun Aggarwal on 17 August 2020**

After reviewing the activity in Panchkula Survey was initiated in all the 20 Districts on the 19<sup>th</sup> of August 2020. On 19<sup>th</sup> August field activity started with the collection of blood samples from the households in the clusters as per the protocol. The Activity of Sero survey was supervised by State IDSP supervisors, State RRT members at State level and District level by Deputy Civil Surgeon and Senior Medical Officers. At the end of the day collected samples stored in the required temperature were transported to lab of the respective Districts. In the lab collected samples of the participants were processed. Activity in clusters was completed on 21<sup>st</sup> August 2020. More than 18,700 blood samples were collected and processing of it was done in the laboratory.



**Table 1 : District wise Sampled PHCs, SCs and Villages**

District	PHCs	SCs	SC Village	Pop	Non SC Village	Pop
Ambala	Pathreri	Pilkhani	Pilkhani	4226	Bilpura, Dera	1618
	Bhurewala	Bhurewala	Bhurawala	2187	Rator	769
	Tharwamajri	Tharwa	Tharwa	2417	Lakhnour sahib	834
	Shahzadpur	Shahzadpur	Shahzadpur	7304	KalalMajri	704
Bhiwani	Sandwa	Sandhwa	Sandhwa	6470		
	Biran	Dang kl.	Dang kl.	2214	Dang khurd	2309
	Manheru	Manheru 1	Manheru 1	5000		
	Kairu	Chandawas	Chandawas	2550	Dhanger	1950
Charkhi Dadri	Badhra	Badhra	Badhra	193	Hansawas Khurd	193
	Santokhpura	Dudwa	Dudwa	3268	Chilar	1491
	Imlota	Santor	Santor	7930	Neemli	
	Badhra	Govindpura	Govindpura	1038	Khorda	<b>1825</b>
Faridabad	Kural	Chandp`ur	Chandpur	8874		
	Kheri Kalan	Bhaskola	Bhaskola			
	Punherakhurd	Piyala	Piyala	5700		
	Anangpur	M.M pur	M.M pur	7721		
Fatehabad	Jakhal	Jakhal	Jakhal	10643	Bajigar Basti	1027
	Mohamadpur rohi	Jandli Kalan	Jandli Kalan	4564	Chobara	2264
	Bhattukalan	Kirdhan	Kirdhan	9169		
	Meaondkalan	Dher	Dher	1882	Gularwala	1865
Gurugram	Daultabad	Bajghera	Bajghera Sec-112	7929	Sarai Sec-109	2272
	Badshahpur	Palra	Palra	2663	Aklimpur	1310
	Pataudi	Sherpur	Sherpur	2298	Inchhapuri	1542
	Bhorakalan	Rathiwasi	Rathiwasi	3517	Bhudka	1502
Hisar	Bass	Kharkhera	Kharkhera	3780	Jeetpura	1300
	Agroha	Kuleri	Kuleri	7310		
	Gurana,	ByanaKhera	ByanaKhera	3810	Gain Pura	1831
	Umra	Bhatla	Bhatla	4907	Khokha	2313
Jhajjar	Dhakla	Subana	Subana	3851	Girdharpur	1258
	Chhuchhakwas	Marrot	Marrot	3885		
	Silani	Salodha	Salodha	3395	Gizarod	1804
	Jahajgarh	M.P Majra	M.P. Majra	4281		
Jind	Jullana	Pauli	Pauli	3957	Hathwala	4117
	Durjanpur	Kakrod	Kakrod	5587	Nacherkhera	1310
	Safidon	Sheela Kheri	Sheela kheri	1927	Bhadurgarh	2490

	Alewa	Durana	Durana	2678	Katwal	847
Kaithal	Kaul	Kaul-2	Kaul-2	6560	Pabla	381
	Batta	Kharakpandwa	Kharakpandwa	5925		
	Mundri	Narar	Narar	4507	SapliKheri	1041
	Rajaund	Neemwala	Neemwala	1329	Roheramajra	1102
Karnal	Gagseena	Pabana	Pabana	3900	Anchla	1324
	Nissing	Aungad	Aungad	7320	Alipur	560
	Popra	Ganga Tehri	Ganga Tehri	3705	Kaul Khera	589
	Gheer	Baina	Baina	5088	Bibipur Brahman	1054
Kurukshetra	Mathana	Bir Mathana	Bir Mathana	2400	Kishanpur	1669
	Babain	Sangaur	Sangaur	2681	MahuwaKheri	962
	Thaska-miranji	ThaskaMiranji	ThaskaMiranji	4744	MeghaMajra	1775
	Ladwa	Barout	Barout	1728	Jainpur	1681
Mewat	Pinangwan,	Shah Chokha	Shah Chokha	5475	Autha	3258
	Marora	Bajidpur	Bajidpur	2096	DhadoliKalaun	1387
	Jaurasi	Rathiwas	Rathiwas	3220	Uton	1801
	Bali	Akera	Akera	9612	Birsika	2521
Narnaul	Chhilaro	Nizampur	Nizampur	2124	Pawera	2302
	Bhojawas	Bhojawas	Bhojawas	5852	Gomla	1258
	Nangal-sirohi	Nimbehera	Nimbehera	1410	Balaycha	1154
	Sihma	Atali	Atali	1795	Dh atali	308
Palwal	Hathin	Andhrola	Andhrola	2413	Bhatta	715
	Hasanpur	Bhandoli	Bhandoli	3362	Maholi	1605
	Amarpur	Sihoul	Sihoul	4531	Pelak	3167
	Naggajatt	Andhop	Andhop	5100		
Panchkula	Pinjore,	32	Ratpur Colony I	1257	Bangala Colony	885
	Surajpur	36	Chicken	1252	KharKuwa	842
	Kot	Rattewali	Rattewali	2904	Shyamtoo	1686
	Barwala	Kakrali	S/c Kakrali	1476	Toda	2200
Panipat	Kabri	Kabri	Kabri	9632	Jeetgarh	1479
	Pattikalayana	Pattikalyana	Pattikalyana	7816	BhodwalMajri	2783
	Ahar	Ahar	Ahar	7155		
	Khotpura	Barana	Barana	5404	DeraSpera	729
Rewari	Basduda	Manethi	Manethi	4022	DhaniManethi, Dhani Naka	349
	Masani	Massani	Massani	1764	Phadni	1168
	Gurawara	Jaitpur	Jaitpur	2000	Sadipur	800
	Tankri	Khandora	Khandora	4650	J.S.P.Khera	1884
Rohtak	Madina	Nidana	Nidana	3992		

	Hassangarh	Hasangarh	Hasangarh	6180		
	Girawar	Ajaib	Ajaib	6256		
	Lakhanmajra	KharakJatan	KharkJatan	4207	Nandal	2992
Sirsa	Keharwala	Keharwala(8344)	Keharwala	4317	Mammr	2373
	Odhan	Mithari	Mithari	2360	Kingre	1772
	Ding	Kairawali	Kairawali	2490	Gadli	922
	Baraguda	Malewala	Malewala	1716	Burj Karamgarh	800
Sonepat	Bhainswal-kalan	Gumana	Gumana	3645		
	Sisana	Sissana	Sissana	10698	GarhiSisana	3865
	Madlana	Durana	Durana	2985	Badothi	1240
	Mahra	Barwasni	Barwasni	5279	Hullaheri	2105
Yamunanagar	Alahar	Gumthla Rao	Gumthala Rao	4692	Sandhala	1411
	Rasulpur	Mirjapur	Mirjapur		Ratoli	
	Naharpur	Hafizpur	Hafizpur	624	Daulatpur	587
	Arnauli	Salempur Bangar	Salampur Banger	1678	Taranwala	548

State was given the following Day-wise plan to cover the clusters.

**Table 3 : Day wise Plan to Cover 16 Clusters in One district**

Day Number	Team Number	Cluster Code	Cluster Type	Sr.No
1	1	P1	PHC village	R1
	2	P1S1	SC village	R2
	3	P1S1V1	NSC Village	R3
	4	P2	PHC village	R4
	5	P2S2	SC village	R5
	6	P2S2V2	NSC Village	R6
2	1	P3	PHC village	R7
	2	P3S3	SC village	R8
	3	P3S3V3	NSC Village	R9
	4	P4	PHC village	R10
	5	P4S4	SC village	R11
	6	P4S4V4	NSC Village	R12
3	1	U1	Urban	U1
	2	U2	Urban	U2
	3	U3	Urban	U3
	4	U4	Urban	U4
	5	Backup		
	6	Backup		

Accordingly, State communicated the templates of micro-plans to the districts. All districts submitted the micro-plans to the state. This plan was used for the supervision.

The original Gantt chart that was approved is given below. However, after first two weeks of planning, training and preparedness, state decided to speedup. Against the one week decided for the pilot survey in one district, it was decided to do the pilot for one day 17<sup>th</sup> August. However, it discovered that the pilot district has collected most of the samples before the day of the pilot. Similarly, against the planned staggered survey to be completed in two weeks; one week for half the districts and another week in pending districts, state decided to do the surveys in all districts in one go. However, state assured to nominate the external supervisors in all the districts such that on the first day of the survey, there should be atleast one supervisor in each district.

#### **GANTT Chart ( Original Plan) and Actual Execution**

	<b>August</b>				<b>September</b>		
	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>
1.Protocol Approvals							
2.Team Formation and Trainings							
3.Logistics- Equipment and Materials							
Trial Run in One district ( Panchkula)							
Survey in 2-11 districts							
Survey in 12-22 districts							
Report Draft 1							
Report Discussion							
Final Report							
Actual Execution							
Steps 1-3							
Survey in all 22 districts							
Analysis & Report							

## Quality Assurance

Quality assurance was an important feature of this mammoth survey. Five systems were implemented for this:

1. In the mobile based survey tool, a question was introduced towards the end that forced the doctor in the survey tool to check the collected data for completeness and correctness before saving the form.
2. There was one supervisor for two teams. They were supposed to visit at least 10% of the survey houses, that means 1-2 houses per quadrant in rural clusters and double of that in the urban clusters. They were supposed to fill the supervisory forms using the mobile app and they were supposed to capture the SPS location of the visit.
3. Supervisors from the state head quarter or nominated by them from various medical colleges were also supposed to record the entries on the mobile app.
4. Supervisors from the Department of Community Medicine & SPH of PGIMER Chandigarh made independent visits. The supervisory report from this team is included in this report as Annexure 3.
5. As data was being captured in real time, the team under lead of PI, made monitoring and evaluation calls to the medical officers and the families to first mentor the team and secondly cross check if the family has been visited and if consent was taken and the experience with the blood sampling.

## Annexure 1

### Role of Department of Community Medicine & School of Public Health

1. Protocol preparation and IEC approvals
2. Trainings and Mentorship: Two trainings done followed by real time mentorship
3. Quality Assurance: Independent supervisory visits done
4. Data compilation and Report Presentation and
5. Submission of Final Report for Dissemination ( Soft Copy)

There was no direct financial liability on the institute except that 3 weeks of extensive consultation work was done for the state by the PI and his support team.

### Role of DGHS Office, Haryana

1. Deployment of Human Resources. It was done as per the plan to large extent.
  - a. 6 Teams per District. One team with one medical officer, one laboratory technician and one ANM/ LHV/ or any other staff of this level.
  - b. 3 supervisors per district: one supervisor per 2 teams. These may be from any supervisory cadre with good attitude
  - c. One State level supervisor for every two districts to be covered on one day.
2. Logistics: Forms were printed, digital tool was used on the android mobile phones. Other logistics were available. Following plan was given to the districts.
  - a. Forms and formats: 850 forms will be required per district. Including wastage, get 1000 forms printed per district
  - b. Digital data entry logistics in terms of mobile phone or some Pad should be made available to all teams.
  - c. State/ district will provide maps of the selected clusters for further micro-planning
  - d. Laboratory materials in terms of blood withdrawing supplies (syringes/ needs/ vacutainers), cotton swab rolls, 70% alcohol for swab, bar code readers, barcode generator, bar code printed slips (4 slips per participant: one for blood vial/ vacutainer/ one to be pasted over survey form, and third on the laboratory document, and fourth extra).
  - e. Permanent black pen markers with fine Tips (two per team).
  - f. Laboratory materials for storage and transport.
  - g. Biomedical waste management supplies (Yellow bags, Black bags, Puncture proof leak proof translucent containers, Stickers of BMW hazard and label stickers).
  - h. Functional ELISA machine with related materials.
3. Transportation: State and districts arranged the vehicles as per the following plan given to them, except that one vehicle was available for Panchkula for two days, and that 4 vehicles

could be used for another one day only, as state had opened the survey in all the districts in one go. Following was the original plan:

- a. District should make separate transport for each team and for each district supervisor. It should not be self driven vehicles with provision to pay for fuel and TA/DA. Considering there will be 6 teams and 3 supervisors, district should engage 9 vehicles for atleast 3 days.
  - b. State should engage vehicles for state level monitoring for quality assurance. Considering one supervisor will cover two districts in one day. First day of supervision is most crucial. Requirement of vehicles for state supervision will be as follows:
    - i. First district Panchkula: Two vehicles will be required for 3 days. One for state officers and second for PGI team. Joint supervisory visit will be done.
    - ii. For Districts 2-11 (10 districts): All 10 districts need visit. Daily one Supervisor will cover 2 districts. Therefore, 5 vehicles will be required daily for 3 days.
    - iii. For districts 12-22 (11 districts): 6 vehicles will be required for 3 days. Requirement may increase by couple of days if night stay will be required in distant districts.
4. Lodging & Boarding: Could not be used as all districts were started at one go for the survey.
- a. State will be responsible for all lodging and boarding of state level supervisors (2 persons from PGI team and 4 persons from State DGHS office).
  - b. State will ensure all arrangements related to regular meals and refreshments of the visiting teams.
5. Communication: State established two whatsapp groups that worked exceptionally well to solve the issues of the districts in real time. The team of PI and state HQ were available from early morning to midnight to the district teams and to the state. Two nodal officers from state were designated by Director IDSP. Following was expected from the state:
- a. State will establish all communication systems required for liaising with the teams throughout the state.
  - b. State should fix nodal persons for state and for each district for such purpose.
6. If required state will get the final reports printed.
7. Administrative Support and Police Protection: It was expected that this being sensitive matter, state will ensure through District Administration, that adequate police protection is provided to each team through-out the survey period. It seems that district administration was informed, however no police protection was deployed.
8. Local Guides and Escorts to Supervisors: It was expected that state will ensure to provide local guides and police escort to each of the state supervisory team. However, the work could be accomplished without this.



## Annexure 2

### STANDARD OPERATING PROCEDURE (SOP)

**1. Purpose:** This SOP describes the procedure for Sero-surveillance for COVID-19 for Haryana

**2. Scope:** This SOP is intended for use by trained health staff or personnel who would be conducting antibody testing for COVID-19 by ELISA, using intravenous blood from the study participants.

**3. Roles and Responsibilities:** Trained health staff or personnel will be responsible for verbal consent, history elicitation, IV blood withdrawal, blood collection, transportation and testing for antibodies for COVID-19.

#### **4. Requirements for sample collection and testing**

##### **• Personal Protective Equipment (PPE)**

- ✓ Gloves (disposable, nitril/ vinyl) of appropriate size
- ✓ Surgical mask (N95 mask, Goggles/ face shield, Closed-toe shoes/ footwear with disposable shoe covers, Laboratory gown; if testing in hospitals)

- Permanent markers and sticking labels / Bar codes
- 70% alcohol cotton swabs,
- 10 ml syringes and 21 gauge needles/ Vacutainers and Tourniquettes
- Dry cotton balls
- Soap and water or Alcohol-based hand sanitizer
- CIF hard copies (as a back-up for Mobile app)
- Biomedical waste equipment like Hub and Needle cutter (Non-electric), color coded waste bags with label stickers and strings to tie the bags
- ELISA Rapid antibody test kits (with pipette/dropper, sample diluents buffer situation)

#### **5. General precautions**

- The personnel performing interview and drawing blood should wear appropriate PPE
- Universal precautions should always be followed during collection and processing of blood specimen
- Laboratory accidents and injuries should immediately be reported to designated supervisory staff/lab director/hospital authority
- Bio-waste should be managed and disposed in accordance with national guidelines

#### **6. Procedure for Blood sample collection**

- ✓ Gather all supplies required and arrange them neatly
- ✓ Wear appropriate PPE before starting sample collection. Perform hand hygiene using soap and water or alcohol-based hand sanitizer with change of gloves before collection of sample from every study participant

Ask the participant to be seated comfortably if possible, and in good light. People from neighborhood should not be allowed to crowd the place.

- ✓ Verify his/her identity by asking the full name, mobile number and
- ✓ Seek informed consent for study participation and sample collection
- ✓ Explain the sample collection procedure to the participant
- ✓ Find appropriate vein preferable left ante-cubital area. Apply tourniquets in upper arm four fingers above the possible site to puncture. Build the vein. Clean the site with spirit cotton swab. Let it dry for few seconds. Prepare the syringe and needle/ vacutainer taking care not to touch the needle area. Insert the needle carefully and withdraw the blood. After 5 ml blood is withdrawn, carefully withdraw the needle carefully and apply the dry swab immediately over the swab apply gentle pressure. Ensure that no drop of blood fell on the ground or over the body of the person. Keep the punctured site for at least one minute. Check after one minute if bleeding has stopped. Take off the bloodstained swab and put in the biomedical waste yellow bag. Apply fresh clean dry swab over the punctured site, or apply plaster bandaid over puncture site that the person can remove next day.
- ✓ Appropriately label the vial/ vacutainer OR apply the bar code. Note the corresponding information in your hard copies and in the software given to you. Make sure that ID number in the survey form, over the blood vial/ vacutainer and in the data sheet/ software match.
- ✓ Before moving to the next house, pay thanks to the family and ensure no waste generated by your activity (biomedical or municipal waste) gets scattered anywhere in the house or community. You need to put it properly in appropriate color coded bags, and carry it to your respective health facility/ district for disposal as per the guidelines.

### **Advice on testing result**

This test is not diagnostic; it tells if there is already developed immunity against COVID-19. Positive result: Consult doctor for interpretation. If symptomatic, consider RT-PCT testing (Complete quarantine; if already in quarantine) If non-symptomatic, observe social distancing and cough etiquettes. Negative result: Observe social distancing and cough etiquettes.

## Participant Information Sheet

Namaskar!

We are from Health Department Haryana. We have come on behalf of Health Department of Govt. of Haryana to do a survey. Can we speak to you now?

*If yes, then sit at a place offered by family. Make sure neighbor do not crowd and surround you.*

1. **Purpose of the study:** You know that a new infection COVID-19 has occurred worldwide including India and Haryana. Because of this all of you are staying at home since March this year. We appreciate your co-operation to follow the instructions given to you time to time. In order to better serve you, Haryana Govt. wants to know how many people have already suffered from this context. It has been observed that lot of people get the infection but do not get the signs and symptoms. It means they donot develop any cough/ cold/ fever etc. Or it may be so mild that it goes unnoticed. However, now blood tests are available that can tell if you had got this infection in recent past. If your blood test will come out to be possible, it may be a good news to you. It may mean that you got the infection, but did not suffer, and that in future you will be able to fight this infection strongly.

Thus purpose of this study is to know how many people in your area have already suffered from the infection of COVID-19. The knowledge gained might help the program managers to evolve guidelines to help prevent and control the spread of infection in communities in future.

2. **Procedures:** If you agree to participate in this study, then we will ask you few questions about your personal and family background, household details, exposure history and any significant medical history of co-morbidities. We will take 5 ml of blood from your suitable vein in the arm, taking all precautions to cause minimum discomfort to you. Blood test will be done in the laboratory for presence of antibodies against COVID-19. The interview, blood collection will be followed by take about 15 minutes of your time. We sincerely request you to give us that time and participate in the survey.
3. **Risk of participation:** You may experience some discomforts while participating in this study. During the interview for data collection, you may have emotional discomfort while recollecting the circumstances under which the contact/exposure to COVID 19 case might have taken place. If needed, we will direct you to the Government operated telephonic psycho-social support facility where trained counselors will answer your questions and suggest help.
4. **Benefit of Participation:** Your blood test report will benefit you in terms of the information about your exposure status. There is no other financial or in kind benefit of participation.
5. **Participant's Rights:** Taking part in this study is voluntary. You can choose not to take part. You can choose not to answer a specific question. You can also stop answering these questions at any time without having to provide a reason. This will not affect any of your rights including right to seek care in a Government facility.

6. **Privacy and confidentiality:** We understand the difficult times that you are facing. Appropriate care will be taken to safeguard your identity and personal information. Your data will be collected using a structured interview schedule by a trained interviewer.  
We will collect **blood samples** to detect antibodies against corona virus. Your specimens will be processed using code numbers. The left-over samples will be preserved for future research. The laboratory results will be given to the study team and will be entered into the study database. The test report will not have your name on it.  
We propose to collect relevant data that includes socio-demographics, exposure details of the contact with that of the COVID-19 patients. Data related to you will be used only for scientific purposes and your records will be kept safely to maintain confidentiality.
7. **Compensation:** No compensation will be paid to you for taking part in this study.
8. **Contact details:** If you wish to find out more about this survey, you can ask me all the questions you want and seek clarifications. You can contact .....  
(District Nodal Officer) for further queries.

If you agree, then we go ahead with the survey.

## प्रतिभागी सूचना पत्र

### नमस्कार!

हम स्वास्थ्य विभाग हरियाणा से हैं। हम सरकार के स्वास्थ्य विभाग की ओर से आए हैं। हरियाणा का एक सर्वेक्षण करना है। क्या अब हम आपसे बात कर सकते हैं?

यदि हाँ, तो परिवार द्वारा दी गई जगह पर बैठें। सुनिश्चित करें कि पड़ोसी और भीड़ आपको घेर न लें।

- 1. अध्ययन का उद्देश्य :** आप जानते हैं कि भारत और हरियाणा सहित दुनिया भर में एक नया संक्रमण कॉविड-19 हुआ है। इस वजह से आप सभी इस साल मार्च से घर पर ही रह रहे हैं। हम समय-समय पर आपको दिए गए निर्देशों का पालन करने के लिए आपके सहयोग की सराहना करते हैं। आपकी बेहतर सेवा करने के लिए, हरियाणा सरकार। यह जानना चाहता है कि कितने लोग इस संदर्भ से पहले ही पीड़ित हैं। यह देखा गया है कि बहुत से लोगों को संक्रमण हो जाता है लेकिन संकेत और लक्षण नहीं मिलते हैं। इस का अर्थ है कि वे किसी भी खाँसी/सर्दी/बुखार आदि का विकास नहीं करते हैं या यह इतना हल्का हो सकता है कि यह किसी का ध्यान नहीं जाता है। हालांकि, अब रक्त परीक्षण उपलब्ध हैं जो बता सकते हैं कि क्या आपको हाल के दिनों में यह संक्रमण हुआ था। यदि आपका रक्त परीक्षण संभव हो जाएगा, तो यह आपके लिए एक अच्छी खबर हो सकती है। इसका मतलब यह हो सकता है कि आपको संक्रमण मिला है, लेकिन पीड़ित नहीं हुआ, और भविष्य में आप इस संक्रमण से दृढ़ता से लड़ पाएंगे।  
इस प्रकार इस अध्ययन का उद्देश्य यह जानना है कि आपके क्षेत्र में कितने लोग पहले से ही कॉविड-19 के संक्रमण से पीड़ित हैं। प्राप्त ज्ञान कार्यक्रम प्रबंधकों को भविष्य में समुदायों में संक्रमण के प्रसार को रोकने और नियंत्रित करने में मदद करने के लिए दिशा निर्देश विकसित करने में मदद कर सकता है।
- 2. प्रक्रियाएं :** यदि आप इस अध्ययन में भाग लेने के लिए सहमत हैं, तो हम आपसे आपकी व्यक्तिगत और पारिवारिक पृष्ठभूमि, घरेलू विवरण, जोखिम इतिहास और सह-रुग्णता के किसी भी महत्वपूर्ण चिकित्सा इतिहास के बारे में कुछ सवाल पूछेंगे। हम आपकी उपयुक्त नस से 5 मिली लीटर रक्त लेंगे, जिससे आपको कम से कम असुविधा हो सकती है। कॉविड-19 के खिलाफ एंटीबॉडी की उपस्थिति के लिए प्रयोगशाला में रक्त परीक्षण किया जाएगा। साक्षात्कार, रक्त संग्रह आपके द्वारा लगभग 15 मिनट का समय लिया जाएगा। हम आपसे निवेदन करते हैं कि आप हमें वह समय दें और सर्वेक्षण में भाग लें।
- 3. भागीदारी का जोखिम :** इस अध्ययन में भाग लेने के दौरान आपको कुछ असुविधाएँ हो सकती हैं। डेटा संग्रह के लिए साक्षात्कार के दौरान, आपको उन परिस्थितियों को याद करते हुए भावनात्मक असुविधा हो सकती है जिन के तहत कॉविड-19 मामले में संपर्क/संपर्क हो सकता है। जरूरत पड़ने पर हम आपको सरकार द्वारा संचालित टेलिफोनिक साइको-सोशल सपोर्ट सुविधा प्रदान करेंगे, जहां प्रशिक्षित काउंसलर आपके सवालों का जवाब देंगे और आपकी मदद करेंगे।
- 4. भागीदारी का लाभ :** आपकी रक्त परीक्षण रिपोर्ट आपको अपने जोखिम की स्थिति के बारे में जानकारी के मामले में लाभान्वित करेगी। भागीदारी के लिए कोई अन्य वित्तीय या दयालु लाभ नहीं है।

5. प्रतिभागी के अधिकार :इस अध्ययन में भाग लेना स्वैच्छिक है। आप भाग नहीं लेने का विकल्प चुन सकते हैं। आप किसी विशिष्ट प्रश्न का उत्तर नहीं देने का विकल्प चुन सकते हैं। आप बिना कारण बताए किसी भी समय इन सवालों के जवाब देना बंद कर सकते हैं। यह सरकारी सुविधा में देखभाल करने के अधिकार सहित आपके किसी भी अधिकार को प्रभावित नहीं करेगा।
6. गोपनीयता और गोपनीयता :हम उस कठिन समय को समझते हैं जिसका आप सामना कर रहे हैं। आपकी पहचान और व्यक्तिगत जानकारी की सुरक्षा के लिए उचित देखभाल की जाएगी। एक प्रशिक्षित साक्षात्कारकर्ता द्वारा एक संरचित साक्षात्कार अनुसूची का उपयोग करके आपका डेटा एकत्र किया जाएगा। हम कोरोना वायरस के खिलाफ एंटीबॉडी का पता लगाने के लिए रक्त के नमूने एकत्र करेंगे। आपके नमूनों को कोड संख्याओं का उपयोग करके संसाधित किया जाएगा। बचे-खुचे नमूनों को भविष्य के शोध के लिए संरक्षित किया जाएगा। प्रयोगशाला के परिणाम अध्ययन दल को दिए जाएंगे और अध्ययन डेटा बेस में दर्ज किए जाएंगे। परीक्षण रिपोर्ट में उस पर आपका नाम नहीं होगा। हम प्रासंगिक डेटा एकत्र करने का प्रस्ताव करते हैं जिसमें सामाजिक-जनसांख्यिकी, कॉविड- 19 रोगियों के साथ संपर्क के जोखिम विवरण शामिल हैं। आपसे संबंधित डेटा का उपयोग केवल वैज्ञानिक उद्देश्यों के लिए किया जाएगा और गोपनीयता बनाए रखने के लिए आपके रिकॉर्ड को सुरक्षित रूप से रखा जाएगा।
7. मुआवजा :इस अध्ययन में भाग लेने के लिए आपको कोई मुआवजा नहीं दिया जाएगा।
8. संपर्क विवरण :यदि आप इस सर्वेक्षण के बारे में और अधिक जानकारी प्राप्त करना चाहते हैं, तो आप मुझसे वे सभी प्रश्न पूछ सकते हैं जो आप चाहते हैं और स्पष्टीकरण चाहते हैं। आप आगे के प्रश्नों के लिए..... (जिला नोडल अधिकारी (से संपर्क कर सकते हैं।

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## Survey Form as on Mobile APP

Qn	S_Qn	Qn_In	Opt_Name	S_Opt_Name	Type
Name of Surveyor	सर्वेयर का नाम	1			Short Text
Select District, Cluster Number and Family Number	जिला, क्लस्टर नंबर और परिवार संख्या का चयन करें	2	Panchkula Clusters_new.xlsx,PanchkulaClusters_new.csv,PanchkulaClusters_new2.csv		Cascading Dropdown
Enter Name of Village/Ward (Cluster)	गाँव / वार्ड) क्लस्टर (का नाम दर्ज करें	3			Short Text
Is this cluster in containment zone?	क्या यह क्लस्टर कंटेनट जोन में है?	4	Yes, No, Do Not Know	हाँ,नहीं,नहीपता	Single Choice
Write Address	पता लिखें	5			Long Text
Has Family Given Consent for survey?	क्या परिवार को सर्वेक्षण के लिए सहमति दी गई है?	6	Yes (Continue Survey), No. (Fill Basic Family Details in questions 7 to 10 and then Stop Survey. Save Form. Thank the Family)	हाँ) सर्वेक्षण जारी रखें,(क्रमांक)बेसिक परिवार विवरण 7 से10 में भरें और फिर सर्वेक्षण रोकें। प्रपत्र सहेजें।परिवार को धन्यवाद दें(	Single Choice
Write Mobile Number of an Adult family member	एक वयस्क परिवार के सदस्य का मोबाइल नंबर लिखें	7			Number
Enter PIN code number	पिन कोड नंबर दर्ज करें	8			Number
Enter Location	स्थान दर्ज करें	9			Location
Family Details	पारिवारिक विवरण	9			Break
Enter Number of Adults above 18 years in family	व्यक्ति का नाम दर्ज करें	10			Repeater_QT
Enter Name of the Person	व्यक्ति का नाम दर्ज करें	10.1			Short Text
Write Gender of Person	व्यक्ति का लिंग लिखें	10.2	Male,	नर,महिला,	Single
			Female,Transgender	ट्रांसजेंडर	Choice



Write Age of Person	व्यक्ति की आयु लिखें	10.3			Number
Ask if the Person has the following diseases	पूछें कि क्या व्यक्ति को निम्नलिखित बीमारियाँ हैं	10.4	Diabetes,Hypertension,Cancer	मधुमेह, उच्च रक्तचाप, कैंसर	Multiple Choice
Details of Sampled Adult	समपन्न वयस्क का विवरण	10			Break
Name of the Adult as per Sampling	नमूने के अनुसार वयस्क का नाम	11			Short Text
Enter Age of Adult	वयस्क की आयु दर्ज करें	12			Number
Enter Gender of Adult	वयस्क का लिंग दर्ज करें	13	Male,Female,Transgender	नर,महिला, ट्रांसजेंडर	Single Choice
Enter Occupation of Adult	वयस्क का व्यवसाय दर्ज करें	14	Health Care Worker, Driver, Police, Shop Owners/ Workers, Govt. Office, Migrant Labour, Any Other	स्वास्थ्य कार्यकर्ता, चालक, पुलिस अधिकारी, दुकान के मालिक /कार्यकर्ता, सरकार। कार्यालय, प्रवासी श्रमिक, कोई और	Single Choice
Exposure History	एक्सपोजर हिस्ट्री	14			Break
Is there an History of Contact with Any Confirmed Case of Covid-19?	क्या कोविड- 19 के किसी भी पुष्टि मामले के साथ संपर्क का इतिहास है?	15	Yes,No,Do Not Know	हाँ, नहीं, नही पता	Single Choice
How many families live in your building?	आपके घर / भवन में कितने परिवार रहते हैं?	16			Number
Did you leave your village/ Area and went to any other place outside village/area in last 30 days?	क्या आपने अपना गाँव छोड़ दिया और पिछले 30 दिनों में गाँव के बाहर किसी अन्य स्थान पर गए?	17	Yes,No ( Go To Q.No. 20)	हाँ, नहीं) Q.No. 20 पर जाएं(	Single Choice
If Yes where did you visit?	यदि हाँ, तो आप कहाँ	18			Long Text

	गए थे?				
Were there any corona positive cases in the area where you had gone?	क्या उस क्षेत्र में कोई कोरोना सकारात्मक मामले थे जहां आप गए थे?	19	Yes,No,Do Not Know	हाँ, नहीं, नहीं पता	Single Choice
Had anyone come from Outside your Village/ Area, and stayed for more than 15 minutes in your house?	क्या कोई आपके गाँव /क्षेत्र के बाहर से आया था, और आपके घर में 15 मिनट से ज्यादा रहा?	20	Yes, No (GO TO Q.No. 22)	हाँ, नहीं) Q.No. 22 पर जाएं(	Single Choice
Who had visited and from where he/she had come?	कौन आया था और वह कहाँ से आया था?	21			Long Text
Take History Of Illness in last 30 Days	पिछले 30 दिनों में बीमारी का इतिहास लें	21			Break
Did you Get Any Health Problem in Last 30 Days?	क्या आपको पिछले 30 दिनों में कोई स्वास्थ्य समस्या हुई?	22	Yes,No	हाँ, नहीं	Single Choice
Did you Get Any of the Following Symptoms in last 30 days? ( Ask Everyone even if they said No to previous Question)	क्या आपको अपनी वर्तमान बीमारी के दौरान निम्नलिखित लक्षणों में से कोई भी मिला है?	23	Fever, Cough, Breathlessness, Running Nose, Sore Throat, Headache, Body Ache, Tiredness, Stomach Ache, Loss of Smell, Loss of Taste, Any Other, No Symptom ( Go TO Q.No. 26)	बुखार, खांसी, सांस फूलना, बहता नाक, गले में खराश, सरदर्द, शरीर दर्द, थकान, पेट दर्द, गंधकानुकसान, स्वाद की हानि, कोई और, कोई लक्षण नहीं )Q.No. 26 पर जाएं(	Multiple Choice
How many days before the date of survey did you have these symptoms?	सर्वेक्षण की तारीख से कितने दिन पहले आपके पास ये लक्षण थे?	24			Number

Surveyor to mark if this Adult has Fever and cough/ breathlessness / Sore throat now?	सर्वेयर यह चिह्नित करने के लिए कि क्या इस वयस्क को बुखार और खांसी / सांस की तकलीफ है?	25	Yes (Stop Survey. Refer the Case Immediately as per State Guidelines),No (Continue Survey)	हां) सर्वेक्षण रोकें राज्य के दिशा निर्देशों के अनुसार मामले को तत्काल देखें(, नहीं )सर्वेक्षण जारी रखें(	Single Choice
Blood Sample Identification Numbers	रक्त का नमूना पहचान संख्या	25			Break
Write ID No. as Put on Blood Sample ( ID No. is cluster number and Family number. For example for first cluster and first house of Panchkula it will be PKL-01-001)	आईडी नं 0न 0को ब्लड सैंपल के रूप में लिखें) ID No. क्लस्टर संख्या और परिवार संख्या है। उदाहरण के लिए पहले क्लस्टर और पंचकुला के पहले घर के लिए यह PKL-01-001 होगा(	26			Short Text
Take Picture of the ID No.	ID No. की तस्वीर ले लो।	27			Picture Input
Medical Officer to Check if all questions have been filled completely and correctly.	चिकित्सा अधिकारी यह जांचने के लिए किस भी प्रश्न पूरी तरह से और सही तरीके से भरे गए हैं या नहीं।	28	Yes ( Save the form),No ( Complete and correct entries in the form and then come back to this question)	हां) फॉर्म सहेजें(,नहीं )फॉर्म में पूर्ण और सही प्रविष्टियाँ और फिर इस प्रश्न पर वापस आएं(	Single Choice
Thank the Family on positive note	सकारात्मक नोट पर परिवार को धन्यवाद	29			Emoji

## Supervisory Form as on Mobile App

Question	Qn_In	Opt_Name	Type
Select Your District	1	Ambala, Bhiwani, Charkhi Dadri, Faridabad, Fatehabad, Gurugram, Hisar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendergarh, Nuh, Palwal, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonipat, Yamunanagar	Drop down
Enter type of observation?	2	Cluster Visit (Record Observations till Q.No 12 and then Save and submit the form. Skip questions 13 Onwards), Laboratory visit ( Skip Questions till 12. Fill Response to question 13 onwards. Save and Submit)	Single Choice
Record Following for Cluster Visit	2		Break
Enter Cluster Number as mentioned in Team Survey Form	3		Short Text
What is the location of this house? Press the button below.	4		Location
Whether full team of Doctor, ANM/LHV and LT available in the field?	5	Yes,No	Single Choice
Whether Form was filled in the mobile phone app given to them?	6	Yes,No	Single Choice
Whether LT was withdrawing blood with aseptic precautions?	7	Yes,No	Single Choice
Whether LT was disposing Biomedical Waste as per the guidelines?	8	Yes,No	Single Choice
Were Blood samples properly labelled?	9	Yes,No	Single Choice
Whether blood samples properly stored?	10	Yes,No	Single Choice
Ask Family if team had explained about the purpose of survey?	11	Yes,No	Single Choice
Take a picture of the Team under action	12		Picture Input
How satisfied were you for the House Survey being conducted by team?	13		Rating
Record Following for Laboratory Visit	13		Break
At the time of receipt whether samples were in good condition with proper labels?	14	Yes,No	Single Choice
Was sample receipt register/ record	15	Yes,No	Single

maintained properly?			Choice
Were samples stored properly?	16	Yes,No	Single Choice
Was trained staff available to do the testing?	17	Yes,No	Single Choice
How many samples lab had received by the time of your visit?	18		Number
How many samples lab had processed by the time of your visit?	19		Number
Take a picture of the Team under action	20		Picture Input
How satisfied were you for the Laboratory Work ?	21		Rating

## Laboratory Form as on Mobile App

Qn	S_Qn	Qn_In	Opt_Name		Type
Name of Lab Reporting Person	सर्वेयर का नाम	1			Short Text
Enter Name of District Cluster and Family Number		2	PanchkulaClusters_newDinesh.csv,Haryana Clusters.csv		Cascading Dropdown
Write ID No. as Put on Blood Sample (ID No. is cluster number and Family number. For example for first cluster and first house of Panchkula it will be PKL-01-001)	आईडी नं 001 को ब्लड सैंपल के रूप में लिखें) ID No. क्लस्टर संख्या और परिवार संख्या है। उदाहरण के लिए पहले क्लस्टर और पंचकुला के पहले घर के लिए यह PKL-01-001 होगा(	3			Short Text
Details of Sampled Adult	सम पत्र वयस्क का विवरण	3			Break
Name of the Adult as per Sampling	नमूने के अनुसार वयस्क का नाम	4			Short Text
Enter Age of Adult	वयस्क की आयु दर्ज करें	5			Number
Enter Gender of Adult	वयस्क का लिंग दर्ज करें	6	Male,Female, Transgender	नर,महिला, ट्रांसजेंडर	Single Choice
ELISA report		7			Short Text

## Supervisor visit Report

**Project : Anti-SARS-CoV-2-IgG antibody survey in Haryana District (Panchkula)**

Date-17/08/2020

**Area Visited:** Civil Hospital lab, Panchkula, Sector-19, Panchkula (Urban cluster); Toda (rural cluster)

### Observations

#### For the lab

1. Laboratory had all the required facility for processing the sample.
2. Designated place was allotted specifically processing the sero survey samples.
3. Required equipment was working and methodology as per kit is being used.
4. Sample record is maintained properly.
5. Team was encouraged to fill the lab results in the app.

#### For the field

6. The area was divided into four quadrants and mid area was selected from center/ sub-center map by medical officer.
7. The selection of member was appropriate and from the designated table only.
8. Full team ANM, lab technician and medical officer was present at the site.
9. Members were filling hard copy of form first and mobile app after that- Advised to fill mobile app form first, to prevent mismatching of data and collected sample.
10. One designated place near to quadrant was fixed to take the sample- which is acceptable as per covid-19 safety issue and space constrains issue. Advised to fill house location in app at house only, other information and sample can be taken from designated site only.
11. Informed consent was taken prior to sample collection
12. LT was withdrawing blood under aseptic conditions
13. Biomedical waste segregation was according to the guidelines only
14. Labeling of blood was proper.
15. Demand by team for multiple access to the survey manger was raised.

### Supervisors:

Dr. Vivek Sagar & Dr. Anuradha Nadda, Deptt. Of Community Medicine & SPH PGIMER, Chandigarh

## External Supervision: HARYANA COVID-19 SERO-SURVEY

**District:** Sonipat

**Date of visit:** 19.08.2020

**Name of Supervisor:** Dr. Anubhuti, Mr. Amit.

### Cluster Visit

Cluster	Barwasni	Mudlana	Bhainswal Kalan
Cluster ID	08	03	01
Time of visit	10:45 AM	12:15 AM	1:45 PM
Team available (MO+LT+ANM/LHV)	Yes	Yes	Yes
MO training	Attended Sonipat dist. briefing in person	Attended Sonipat dist. briefing in person	Attended Sonipat dist. briefing in person
Data collection	Door-to-door	Door-to-door	Door-to-door
Blood sample collection observation	<ul style="list-style-type: none"> <li>• Aseptic technique followed</li> <li>• Sample labeled and stored properly</li> </ul>	<ul style="list-style-type: none"> <li>• Aseptic technique followed</li> <li>• Sample labeled and stored properly</li> </ul>	<ul style="list-style-type: none"> <li>• Swabbing done with dry cotton before needle insertion;</li> <li>• needle insertion done thrice on single subject</li> <li>• no coolant</li> <li>• Sample labeled and stored properly</li> </ul>
Bio-medical waste management	<ul style="list-style-type: none"> <li>• Needle safely disposed using hub cutter</li> <li>• waste segregation done</li> <li>• color coded bags not available (only yellow)</li> </ul>	<ul style="list-style-type: none"> <li>• Needle recapped</li> <li>• hub cutter not available,</li> <li>• waste segregation done</li> <li>• color coded bags not available (only yellow)</li> </ul>	<ul style="list-style-type: none"> <li>• Needle recapped</li> <li>• hub cutter not available</li> <li>• waste segregation done</li> <li>• color coded bags not available (only yellow)</li> </ul>
Mobile forms filled	Yes	Yes	Yes
Specific observation	Team found working despite rain LT not wearing gloves, however he had sanitized hands before sample collection; instructed to wear gloves	Team found working despite rain	Team found working despite rain LT and MPHWS could not draw blood sample despite 2-3 needle insertions, LT from the supervising team demonstrated sample collection at site.

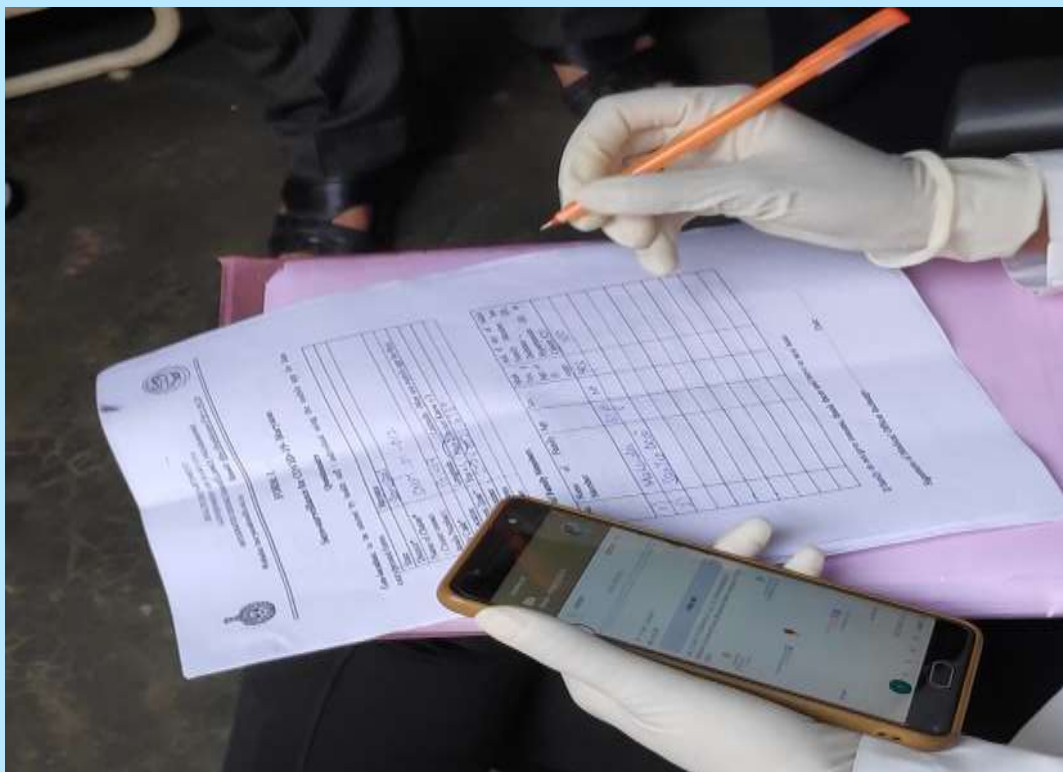


## Notes:

- As per MO's they had been instructed to sample households randomly, however the technique for random sampling was varying. The rule of left (turn) was not specified.
- Adhar ID and ration card details were being additionally recorded (Mudlana, Bhainswal Kalan) as directed in dist. Sonipat survey briefing.
- Though the microplan for Day 1 (19-Aug-2020) stated – Mahara PHC; Barswani was being sampled instead on Day 1. MO's were apparently allowed to make their 3-day micro-plans. The MO of Mahara had chosen to start with Barswani -day 1, Hulleri -day 2 and Mahara -day 3.
- MO's took detailed consent after explaining study (Mudlana, Barswani); MO at Bhainswal Kalan detailed the study purpose to respondent in one observation but not a second instance stating that the subject was AWW and knew about study already.

## Lab Visit – Sonipat Hospital

- Only 4 samples had reached at time of visit (4 PM), as it was day 1 of data collection, and collection was in process. No samples was tested at time of visit as samples from other clusters were awaited.
- Samples were correctly labelled, and properly stored.
- Cold chain was maintained.
- Register was properly maintained.



Medical Officer at Bhainswal Kalan filling out hard-copy and mobile-based form

## **External Supervision Report of anti-SARS-CoV-2-IgG antibody survey in Haryana District Yamunanagar& Kurukshetra**

**Date-**19.08.2020

**Area Visited:** Yamunagar: Naharpur, Alahar,  
Kurukshetra: Ladwa, Mathana, Sector 5 UE KKR

### **Observations**

In all areas team was working hard despite rain. Teams were going house to house with so much material, which is really appreciable and shows the motivation of all team members to fight against Covid-19.

### **Cluster YNR03**

1. Team started late, as it was raining heavily. Lab technician was in full PPE.
  2. Biomedical waste disposal was not been properly
- Rest everything was satisfactory.

### **Cluster YNR 01**

Team was working efficiently

### **Cluster KKR04**

1. Medical Officer was not trained
2. Selection of houses was not clear
3. Taking the picture of sampled person with LT.
4. Team was not properly trained

Team was motivated and **working very hard**.

### **Cluster KKR01 & KKR16**

Survey was interrupted due to rain. Teams were working as per guidelines.

**Supervisor:** Dr. Anuradha Nadda,

Assistant Professor in Deptt. of Community Medicine & SPH, PGIMER, Chandigarh

## External Supervision Report of anti-SARS-CoV-2-IgG antibody survey in Haryana District Kaithal& Ambala

Date-19-08-2020

### Cluster 1 (Kaithal)

1. Medical Officer was not trained, selection of participant in the household was not proper.
2. Biomedical Waste was good.
3. Informed Consent was taken.
4. The team was setting up the kiosk when I reached there

### Cluster 2 (Kaithal)

1. Met State Supervisor Dr Suresh there.
2. MO has already selected the household and maintained register of all the adults and selection of participants was also done previous day itself. (Fig 1)
3. Informed Consent was taken.
4. Mobile app was being filled.
5. Biomedical Waste Management was also good.
6. Cold chain maintenance was adequate.

Household No.	Name	Age	Sex	Other Details
11	1. श्रीमती श्रीमती	50	F	
	2. श्रीमती श्रीमती	45	F	
	3. श्रीमती श्रीमती	40	F	
12	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
	3. श्रीमती श्रीमती	35	F	
	4. श्रीमती श्रीमती	30	F	
	5. श्रीमती श्रीमती	25	F	
13	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
	3. श्रीमती श्रीमती	35	F	
14	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
15	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
16	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
17	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
	3. श्रीमती श्रीमती	35	F	
18	1. श्रीमती श्रीमती	45	F	
	2. श्रीमती श्रीमती	40	F	
	3. श्रीमती श्रीमती	35	F	
	4. श्रीमती श्रीमती	30	F	

Fig 1: Register of the households and adults to be sampled

### Cluster 3(Ambala)

1. Informed Consent was taken.
2. Bio-Medical Waste Management was good, however, after observation; Lab technician did not tell patient where to dispose cotton after sample has been taken.
3. There was MO on supervision from Mullana as well. She went with ANM for selection of the household and selection of participant.
4. IA was also there, who was filling forms. The id number was incorrectly filled as there was an extra zero in the family ID as shown in the photo below. (Fig 2)
5. Cold Storage was adequate.



**Fig 2: Sample ID No (AMB14-0032)**

#### **Cluster 4 (Ambala)**

1. Despite rains, 2 MOs, 2 SNs and 2 MPHVs were carrying out household survey.
2. Informed consent was not taken.
3. The selection of one household visited was not correct, however MO has told that it was by mistake. And next household she did correctly.
4. Biomedical Waste Management was good but again patient was not told about disposal of cotton after prick.
5. Cold Storage was adequate.



## Household Survey Details



## District Ambala

**Table 1: Villages/ Area Covered in Ambala District**

Villages/ Areas	Number
Aman nagar	22
AMB06_oo3	1
Badshahi Bagh	24
Baldevnagar	86
Band Fatak Huts Ambala City	12
Baragarh	43
Bari bassi	42
Chaurmastpur	44
Jaitpura	44
Jodhpur	43
KanchGhar Ambala City	13
Kusht Ashram Ambala City	10
Milap Nagar	21
Muslim basti	13
Naggal	44
Naneola	43
New lucky nagar	21
Nishat bagh	88
Pathreri	44
Pilkhani	40
Sec 8 Housing Board Guruarjunpura Ambala City	9
Shahzadpur	44
Tara nagar	29
VillPilkhani	5
Village Billpura	47
Village Khurchanpur	44
village question	1
<b>Total</b>	<b>884</b>



**Table 2: Was the Area in Containment Zone, Ambala?**

Response	Number	Percent
No	854	96.6
Yes	22	2.5
Blank	8	0.9
<b>Total</b>	<b>884</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Ambala?**

Response	Number	Percent
No.	17	1.9
Yes	858	97.1
Blank	9	1
<b>Total</b>	<b>884</b>	<b>100</b>

**Table 4: Gender Distribution, Ambala**

Response	Number	Percent
Female	477	54
Male	392	44.3
Blank	15	1.7
<b>Total</b>	<b>884</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Ambala district**

Gender of Adult	N	Mean	Std. Deviation
Female	472	45.01	16.408
Male	389	50.59	16.436
Blank	23		
<b>Total</b>	<b>884</b>	<b>46.82</b>	<b>17.52</b>

**Table 6: Occupation Distribution, Ambala**

Response	Number	Percent
Driver	4	0.5
Govt. Office	17	1.9
Health Care Worker	6	0.7
Migrant Labour	39	4.4
Police	1	0.1
Shop Owners/ Workers	48	5.4
Any Other	754	85.3
Blank	15	1.7
<b>Total</b>	<b>884</b>	<b>100</b>

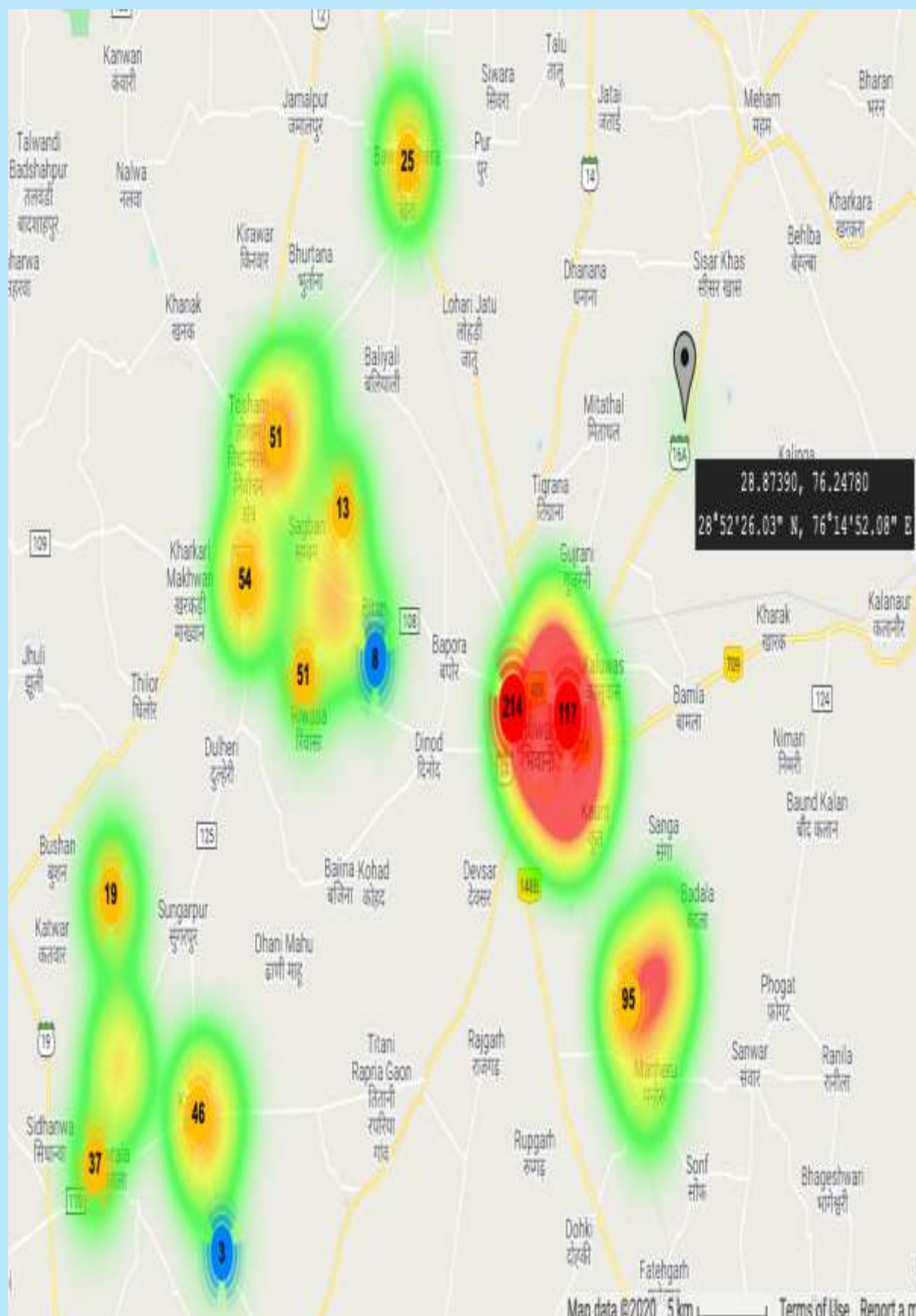
**Table 7: Was there Any Health Problem in Last 30 Days, Ambala**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	812	91.9
Yes	19	2.1
Blank	53	6
<b>Total</b>	<b>884</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Ambala (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom "]	790	89.4
["Body Ache", "Tiredness", "Loss of Smell"]	1	0.1
["Body Ache", "Tiredness"]	2	0.2
["Body Ache"]	2	0.2
["Breathlessness", "Headache", "Tiredness"]	1	0.1
["Cough"]	2	0.2
["Fever"]	1	0.1
["Headache", "Body Ache", "Tiredness", "Stomach Ache"]	1	0.1
["Headache", "Body Ache", "Tiredness"]	13	1.5
["Headache", "Body Ache"]	1	0.1
["Headache", "Tiredness"]	2	0.2
["Headache"]	4	0.5
["Running Nose", "Headache", "Body Ache"]	1	0.1
["Tiredness"]	7	0.8
["Any Other"]	2	0.2
Blank	54	6.1
<b>Total</b>	<b>884</b>	<b>100</b>

## District Bhiwani



**Table 1: Villages/ Area Covered in Bhiwani District**

<b>Villages/ Areas</b>	<b>Number</b>
3	22
9	22
11	22
Biran,02	43
Birla Colony	22
Btm Chowk	24
Chandawas	33
Dandkurd	41
Dang Kalan	42
Dhana Road	85
Dharan	42
Dhareru	42
KahrkadiSohan Ward 05	41
Krishna Colony	23
Manheru	42
Nanal	41
Nirmla	1
Phc Kairu	44
Sandwa	44
Sewa Nagar	20
Uphe Dhana Road	1
Village -Dhanger	44
Village Chandawas	10
Ward No 10	44
Ward No 4	46
Ward No 5	22
<b>Total</b>	<b>863</b>

**Table 2: Was the Area in Containment Zone, Bhiwani?**

Response	Number	Percent
No	836	96.9
Yes	26	3
Do Not Know	1	0.1
<b>Total</b>	<b>863</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Bhiwani?**

Response	Number	Percent
No	4	0.5
Yes	859	99.5
<b>Total</b>	<b>863</b>	<b>100</b>

**Table 4: Gender Distribution, Bhiwani**

Response	Number	Percent
Female	374	43.3
Male	485	56.2
Transgender	1	0.1
Blank	3	0.3
<b>Total</b>	<b>863</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Bhiwani district**

Gender of Adult	N	Mean	Std. Deviation
Female	366	41.5	13.933
Male	473	43.36	16.387
Transgender	1	60	.
Blank	23		
<b>Total</b>	<b>863</b>	<b>42.48</b>	<b>15.51</b>

**Table 6: Occupation Distribution, Bhiwani**

Response	Number	Percent
Driver	4	0.5
Govt. Office	23	2.7
Health Care Worker	21	2.4
Migrant Labour	43	5
Police	2	0.2
Shop Owners/ Workers	56	6.5
Any Other	712	82.5
Blank	2	0.2
<b>Total</b>	<b>863</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Bhiwani**

Response	Number	Percent
No	840	97.3
Yes	14	1.6
Blank	9	1
<b>Total</b>	<b>863</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Bhiwani (Multiple response)**

Symptoms	Number	Percent
["No Symptom"]	729	84.5
["Body Ache", "Tiredness", "No Symptom"]	1	0.1
["Body Ache", "Tiredness"]	1	0.1
["Body Ache"]	5	0.6
["Breathlessness"]	1	0.1
["Cough", "Running Nose"]	1	0.1
["Cough", "Tiredness"]	1	0.1
["Cough"]	1	0.1
["Fever", "Cough", "Running Nose"]	2	0.2
["Fever", "Cough"]	2	0.2
["Fever", "Stomach Ache"]	1	0.1
["Fever"]	3	0.3
["Headache", "Body Ache", "Tiredness"]	1	0.1
["Headache", "Body Ache"]	1	0.1
["Headache"]	5	0.6
["Running Nose"]	1	0.1
["Sore Throat", "Body Ache"]	1	0.1
["Stomach Ache"]	3	0.3
["Tiredness"]	2	0.2
["Any Other"]	1	0.1
Blank	100	11.6
<b>Total</b>	<b>863</b>	<b>100</b>





**Table 1: Villages/ Area Covered in Charkhi Dadri District**

<b>Villages/ Area</b>	<b>Number</b>
Badhra	41
Balali	44
Chillar	33
Dudhwa	43
Govind Pura	43
H N.77 VpoMankawas	1
HarijanChopalBadhra	1
Imlota	45
Jhojhu Kalan	43
Khorda	44
Mankawa	88
Mehra	45
Neemali	43
Ranila	88
Rohtash	1
Santokhpura	35
Santor	44
Sanwar	87
Urban Charkhi Dadri	89
Ward No 3, Badhra	2
<b>Total</b>	<b>860</b>

**Table 2: Was the Area in Containment Zone, Charkhi Dadri?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	858	99.8
Yes	2	0.2
<b>Total</b>	<b>860</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Charkhi Dadri?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	17	2
Yes	840	97.7
Blank	3	0.3
<b>Total</b>	<b>860</b>	<b>100</b>

**Table 4: Gender Distribution, Charkhi Dadri**

Response	Number	Percent
Female	410	47.7
Male	442	51.4
Transgender	1	0.1
Blank	7	0.8
<b>Total</b>	<b>860</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Charkhi Dadri district**

Gender of Adult	Mean	N	Std. Deviation
	47.23	410	15.648
Male	48.52	439	16.138
Transgender	41.00	1	.
Blank		7	
<b>Total</b>	<b>47.61</b>	<b>857</b>	<b>16.270</b>

**Table 6: Occupation Distribution, Charkhi Dadri**

Response	Number	Percent
Driver	4	0.5
Govt. Office	16	1.9
Health Care Worker	12	1.4
Migrant Labour	1	0.1
Shop Owners/ Workers	22	2.6
Any Other	799	92.9
Blank	6	0.7
<b>Total</b>	<b>860</b>	<b>100</b>

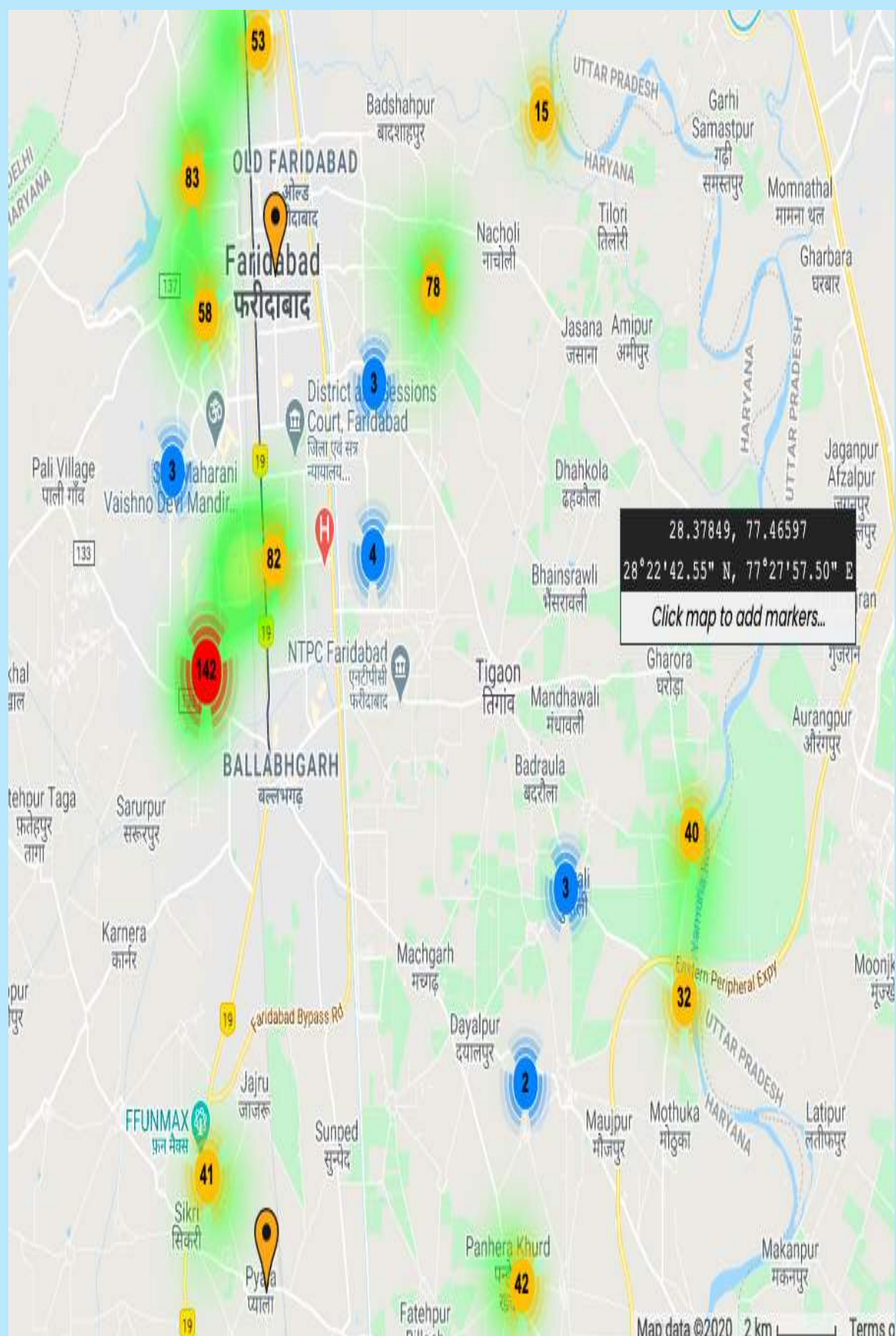
**Table 7: Was there Any Health Problem in Last 30 Days, Charkhi Dadri?**

Response	Number	Percent
No	845	98.3
Yes	2	0.2
Blank	13	1.5
<b>Total</b>	<b>860</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Charkhi Dadri  
(Multiple response)**

Symptoms	Number	Percent
["No Symptom"]	848	98.6
["Body Ache"]	1	0.1
["Cough"]	1	0.1
["Running Nose"]	1	0.1
["Any Other"]	1	0.1
Blank	8	0.9
<b>Total</b>	<b>860</b>	<b>100</b>

## District Faridabad



**Table 1: Villages/ Area Covered in Faridabad District**

<b>Villages/ Area</b>	<b>Number</b>
Anangpur	43
Ankhir	44
AutopinMujessar	38
Bhaskola	48
Chandan Nagar Sec 25 Faridabad	22
Chandpur	45
Kheri Kalan Badeka Mohalla Faridabad	3
Kurali	44
Mahawatpur	44
Mcf-142,Sec.52 ,Fbd	1
MewlaMaharajpur	57
Mujhesar Azad Nagar	22
Nai Basti Mujessar	6
Panhera Khurd	44
Pyala	49
Sanjay Colony Sec. 23,Fbd	17
Sector-22,Fbd	1
SGM Nagar, Adarsh Colony Fbd	87
Shahjahanpur	43
Shahpur	43
V.P.O Kheri Kalan Kawa Mohalla Faridabad	39
Ward No 4	2
Ward No 5	1
Ward No 6	2
Ward Number 3	60
Blank	4
<b>Total</b>	<b>809</b>

**Table 2: Was the Area in Containment Zone, Faridabad?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	702	86.8
Yes	103	12.7
Blank	4	0.5
<b>Total</b>	<b>809</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Faridabad?**

<b>Response</b>	<b>Frequency</b>	<b>Percent</b>
No	12	1.5
Yes	794	98.1
Blank	3	0.4
<b>Total</b>	<b>809</b>	<b>100</b>

**Table 4: Gender Distribution, Faridabad**

Response	Number	Percent
Female	454	56.1
Male	333	41.2
Transgender	1	0.1
Blank	21	2.6
<b>Total</b>	<b>809</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Faridabad district**

Gender of Adult	N	Mean	Std. Deviation
Female	451	41.03	14.325
Male	333	41.47	16.609
Transgender	1	26	.
Blank	24		
<b>Total</b>	<b>809</b>	<b>40.29</b>	<b>16.383</b>

**Table 6: Occupation Distribution, Faridabad**

Response	Number	Percent
Driver	5	0.6
Govt. Office	3	0.4
Health Care Worker	21	2.6
Migrant Labour	30	3.7
Police	1	0.1
Shop Owners/ Workers	70	8.7
Any Other	660	81.6
Blank	19	2.3
<b>Total</b>	<b>809</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Faridabad**

Response	Number	Percent
No	772	95.4
Yes	3	0.4
Blank	34	4.2
<b>Total</b>	<b>809</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Faridabad  
(Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	748	92.5
["Body Ache", "Tiredness"]	3	0.4
["Body Ache"]	3	0.4
["Cough", "No Symptom"]	1	0.1
["Fever", "Cough", "Breathlessness"]	1	0.1
["Fever", "Cough", "Running Nose"]	1	0.1
["Fever"]	3	0.4
["Headache", "Body Ache"]	1	0.1
["Headache", "Stomach Ache"]	1	0.1
["Headache"]	3	0.4
["Running Nose", "Sore Throat"]	1	0.1
["Running Nose"]	2	0.2
["Any Other"]	2	0.2
Blank	39	4.8
<b>Total</b>	<b>809</b>	<b>100</b>





**Table 1: Villages/ Area Covered in Fatehabad District**

<b>Village/Ward</b>	<b>Number</b>
Aajad Nagar Tohana	6
Adarsh Colony Bhuna Road Tohana	1
Ashok Nagar Ward No.5 FTB-14	7
Ashol Nagar, Ward No.5	1
Badi Hanuman MurtiTohana	1
Baliaala Road Dhani	1
Balmiki Chowk BrootGaliTohana	5
Begampur Colony	1
Bhat Basti Tohana	1
Bhatia Colony	16
Bhatia Nagar	3
Bhattukalan	40
Bhattukalan 2	2
Blada Colony Tohana	1
Buta Shah Basti	6
Canal Road Bhatia Nagar	1
Chandigarh Road	3
Chaubara	41
Dher	43
Ekta Nagar Dhani Bhuna Road Tohana	1
Gali No. 5, Bhatia Colony,	1
Geeta Colony Dangra Road Tohana	1
Gilla Vali DhaniTohana	1
Gullarwala	44
Gupta Colony Tohana	1
Guru Ravidas Mohalla	1
Harijan Colony Ward No 14 (Q1)	15
Huda Polyclinic	88
Indira Colony Tohana	6
Jakahal	41
Jandli Kalan	41
Javahar Nagar Tohana	1
Kalyan Nagar	2
Kalyan Nagar Tohana	2
Kath Mandi, Ward No. 13	10
Khobra Mohalla Tohana	1
Killa Mohalla Tohana	1
Kirdhan	42
Krishna Colony Tohana	5
Lajpat Nagar Ward No 10	8
Maniana Road Ward 1	1
Masala Factory Damkora Road	2
Meyond	42
MpRohi	42

Navdurga StateTohana	1
Near Bhatia Dharamshala	1
Near Kk Rice Mill Tohana	1
New Enclave Colony Tohana	1
Officer Colony Near Gurudwara	1
Parbhakar Colony	2
Punjabi Basti Tohana	3
Railway Colony	1
Raj Nagar	9
Sadhanwas	2
Sadniwas	40
Saini Mohalla	1
Sapra Mohalla Tohana	1
Sirdhan	44
Sunder Basti	4
Talvada	41
Taz Mohmad Vali Gali Near IG College	1
Tehsil Road Tohana	1
Tibba Basti	3
VillJandli Kalan	1
Ward No 5, Ashok Nagar, FTB-14	14
Ward No 10, Lajpat Nagar	13
Ward No 24, Bhatia Colony	2
Ward No 24, Bhatia Colony, FTB-14	1
Ward No 9 Killa Mohalla	1
Ward No. 24, Bhatia Colony	2
Ward No. 5, Ashol Nagar Ftb-14	1
Ward No2 Rajnagar	1
<b>Total</b>	<b>774</b>

**Table 2: Was the Area in Containment Zone, Fatehabad?**

Response	Number	Percent
No	772	99.7
Do Not Know	2	0.3
<b>Total</b>	<b>774</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Fatehabad?**

Response	Number	Percent
No	23	3
Yes	750	96.9
Blank	1	0.1
<b>Total</b>	<b>774</b>	<b>100</b>

**Table 4: Gender Distribution, Fatehabad**

Response	Number	Percent
Female	365	47.2
Male	402	51.9
Blank	7	0.9
<b>Total</b>	<b>774</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Fatehabad district**

Gender of Adult	N	Mean	Std. Deviation
Female	360	44.87	15.28
Male	400	44.27	17.089
Blank	14		
<b>Total</b>	<b>774</b>	<b>44.2</b>	<b>16.621</b>

**Table 6: Occupation Distribution, Fatehabad**

Response	Number	Percent
Driver	3	0.4
Govt. Office	20	2.6
Health Care Worker	30	3.9
Migrant Labour	35	4.5
Police	2	0.3
Shop Owners/ Workers	63	8.1
Any Other	617	79.7
Blank	4	0.5
<b>Total</b>	<b>774</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Fatehabad**

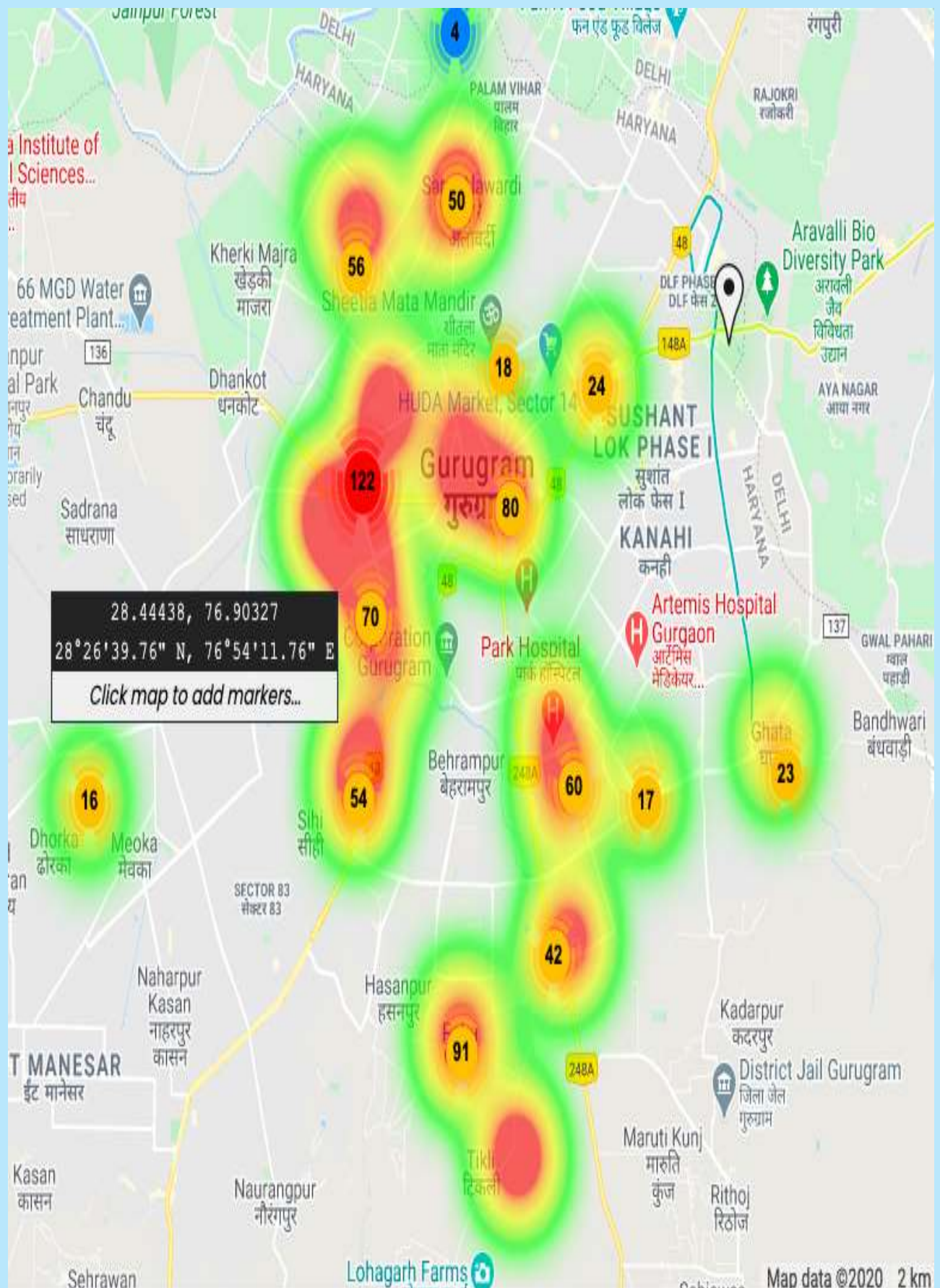
Response	Number	Percent
No	766	99
Blank	8	1
<b>Total</b>	<b>774</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Fatehabad  
(Multiple response)**

<b>Symptoms</b>	<b>Frequency</b>	<b>Percent</b>
["No Symptom"]	763	98.6
["Any Other"]	1	0.1
["Cough"]	1	0.1
["Fever"]	1	0.1
["Headache"]	1	0.1
["Running Nose", "Headache", "Body Ache"]	1	0.1
Blank	6	0.8
<b>Total</b>	<b>774</b>	<b>100</b>



## District Gurugram



**Table 1: Villages/ Area Covered in Gurugram District**

<b>Village/Ward</b>	<b>Number</b>
Malibu Town	1
23	1
26	29
26 Tigra	1
30	23
39	1
Aklimpur	48
Anjan Colony	23
Badshahpur	48
Basai Enclave Part 2	24
Basai Enclave	1
Basai Enclave Part 1	26
Bhawani Enclave	22
Bhim Nagar	27
Bhorakalan	54
Bhudka	53
Daultabad	62
Grml6 Tigra	3
H. N 63	1
Inchapuri	50
Kadipur Industrial Area	26
Khandsa	43
Malibu	26
Mohammadpur	26
Mukesh	1
Nand Kishor	1
Narshingpur	6
Near BeragiChaupal Sarai Alawardi	6
Palra	57
Parbha	1
Parvati	1
Pataudi	15
Patel Nagar	85
Rathiwas	49
Sarai Alawardi	43
Sarai Sec 109	1
Tigra	15
VillSherpur	47
Village Bajgerha	57
Ward 05 Pataudi Near Shiv Murti	4
Ward 10	12



Ward 15	9
Ward 26	3
Ward 26 Tigra	2
Ward 29	1
Ward 6	10
Blank	4
<b>Total</b>	<b>1049</b>

**Table 2: Was the Area in Containment Zone, Gurugram?**

Response	Number	Percent
No	1014	96.7
Yes	33	3.1
Blank	2	0.2
<b>Total</b>	<b>1049</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Gurugram?**

Response	Number	Percent
NO	49	4.7
Yes	999	95.2
Blank	1	0.1
<b>Total</b>	<b>1049</b>	<b>100</b>

**Table 4: Gender Distribution, Gurugram**

Response	Number	Percent
Female	560	53.4
Male	450	42.9
Transgender	1	0.1
Blank	38	3.6
<b>Total</b>	<b>1049</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Gurugram district**

Gender of Adult	N	Mean	Std. Deviation
Female	556	38.7	14.679
Male	443	44.96	17.666
Transgender	1	40	.
Blank	49		
<b>Total</b>	<b>1049</b>	<b>39.96</b>	<b>17.881</b>

**Table 6: Occupation Distribution, Gurugram**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
Driver	14	1.3
Govt. Office	16	1.5
Health Care Worker	18	1.7
Migrant Labour	48	4.6
Shop Owners/ Workers	58	5.5
Any Other	842	80.3
Blank	53	5.1
<b>Total</b>	<b>1049</b>	<b>100</b>

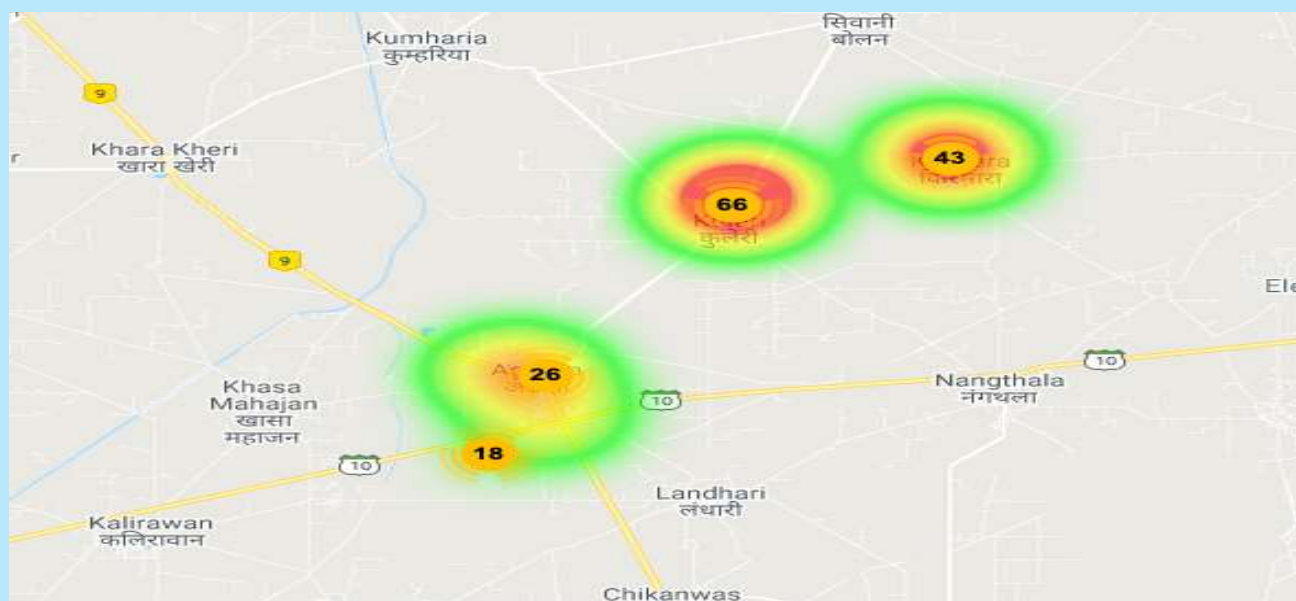
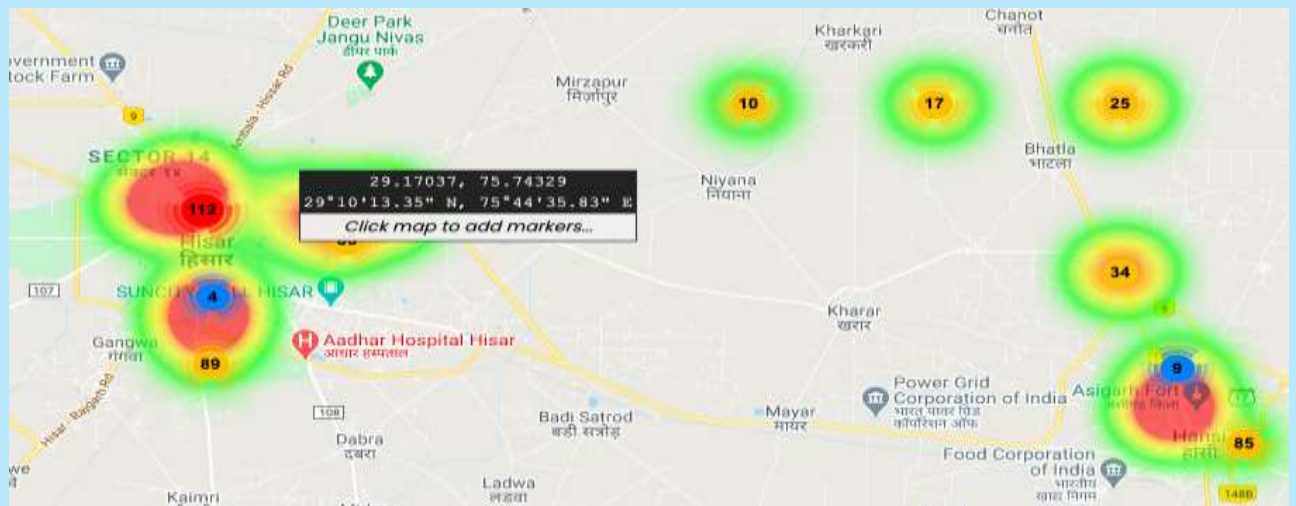
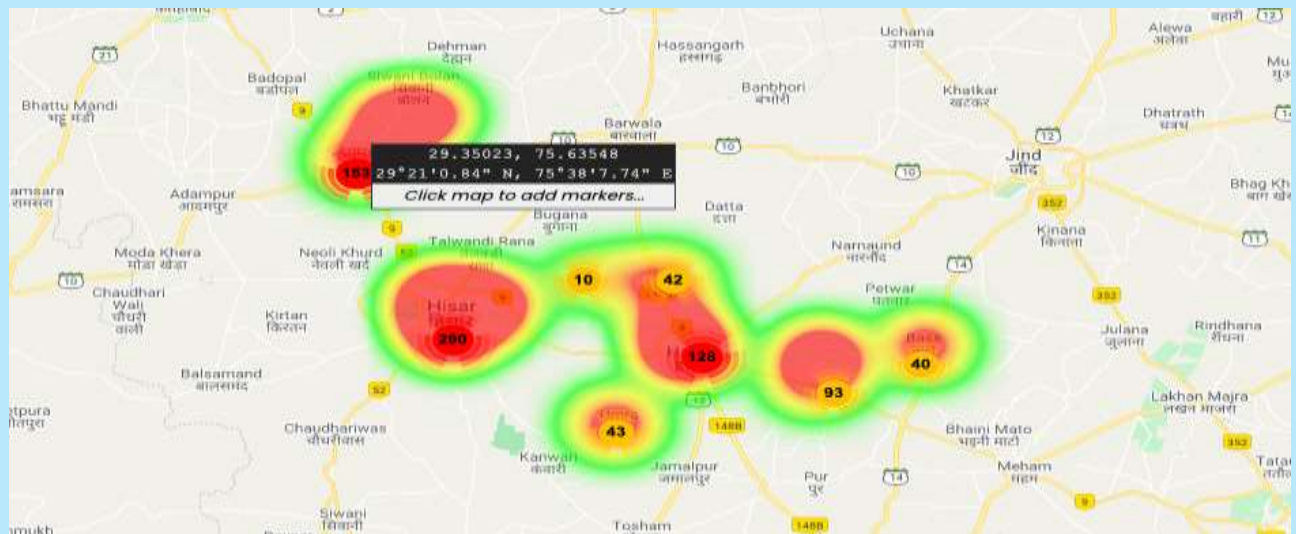
**Table 7: Was there Any Health Problem in Last 30 Days, Gurugram**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	974	92.9
Yes	12	1.1
Blank	63	6
<b>Total</b>	<b>1049</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Gurugram (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	936	89.2
["Body Ache"]	1	0.1
["Breathlessness"]	1	0.1
["Cough", "Running Nose", "Sore Throat"]	1	0.1
["Cough", "Running Nose"]	1	0.1
["Cough", "Sore Throat", "Headache"]	1	0.1
["Cough"]	1	0.1
["Loss of Taste"]	1	0.1
["Running Nose", "No Symptom"]	1	0.1
["Running Nose"]	5	0.5
["Sore Throat"]	3	0.3
["Any Other"]	2	0.2
Blank	95	9.1
<b>Total</b>	<b>1049</b>	<b>100</b>

## District Hisar



**Table 1: Villages/ Area Covered in Hisar District**

<b>Village/Ward</b>	<b>Number</b>
Rishinagar	1
VpoUmra	1
Agroa	44
Bass	49
Bhatla	45
ByanKhera	43
Gianpura	49
Gol Kothi	22
Gurana	42
Jeetpura	20
Jyoti	1
Kharkara	45
Khokha	44
Kirmara	34
Kuleri	66
LuxmanChotraHansi	22
Mahavie Colony Hisar	88
Old	1
Old Rishinagar	45
Pate Nager	89
Ragaran Mohalla	7
Ram Lal Colony	22
Rattan Mohalla	1
Regar Mohalla	15
Rishi Nagar	55
Village Jeetpura	34
VpiUmra	1
VpoBhatla	1
VpoKirmara	9
VpoUmra	42
<b>Total</b>	<b>938</b>

**Table 2: Was the Area in Containment Zone, Hisar?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	932	99.4
Yes	4	0.4
Do Not Know	2	0.2
<b>Total</b>	<b>938</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Hisar?**

Response	Number	Percent
No	54	5.8
Yes	881	93.9
Blank	3	0.3
<b>Total</b>	<b>938</b>	<b>100</b>

**Table 4: Gender Distribution, Hisar**

Response	Number	Percent
Female	485	51.7
Male	404	43.1
Blank	49	5.2
<b>Total</b>	<b>938</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Hisar district**

Gender of Adult	N	Mean	Std. Deviation
Female	479	39.08	13.079
Male	397	42.17	16.384
Blank	62		
<b>Total</b>	<b>938</b>	<b>38.28</b>	<b>17.093</b>

**Table 6: Occupation Distribution, Hisar**

Response	Number	Percent
Driver	7	0.7
Govt. Office	15	1.6
Health Care Worker	23	2.5
Migrant Labour	15	1.6
Police	2	0.2
Shop Owners/ Workers	29	3.1
Any Other	798	85.1
Blank	49	5.2
<b>Total</b>	<b>938</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Hisar**

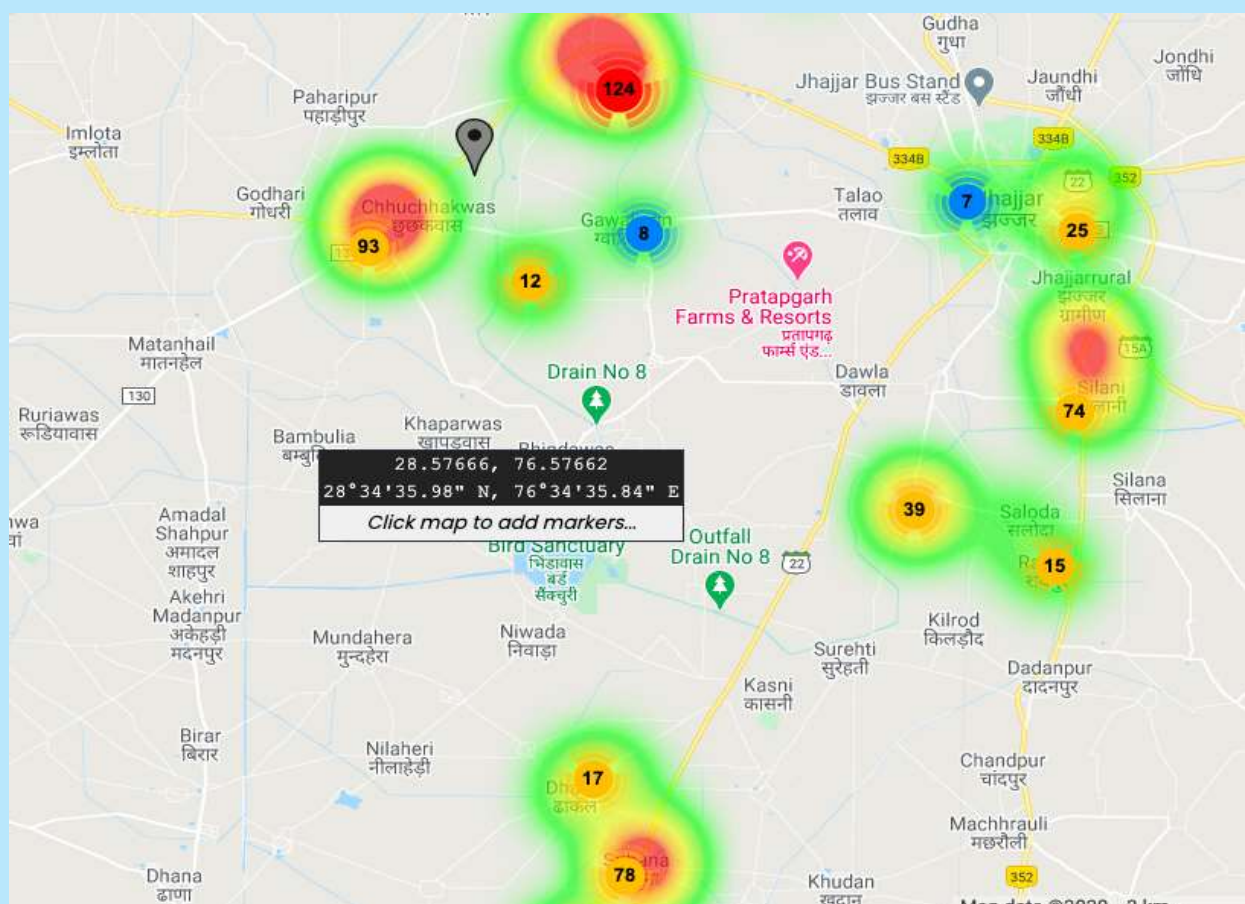
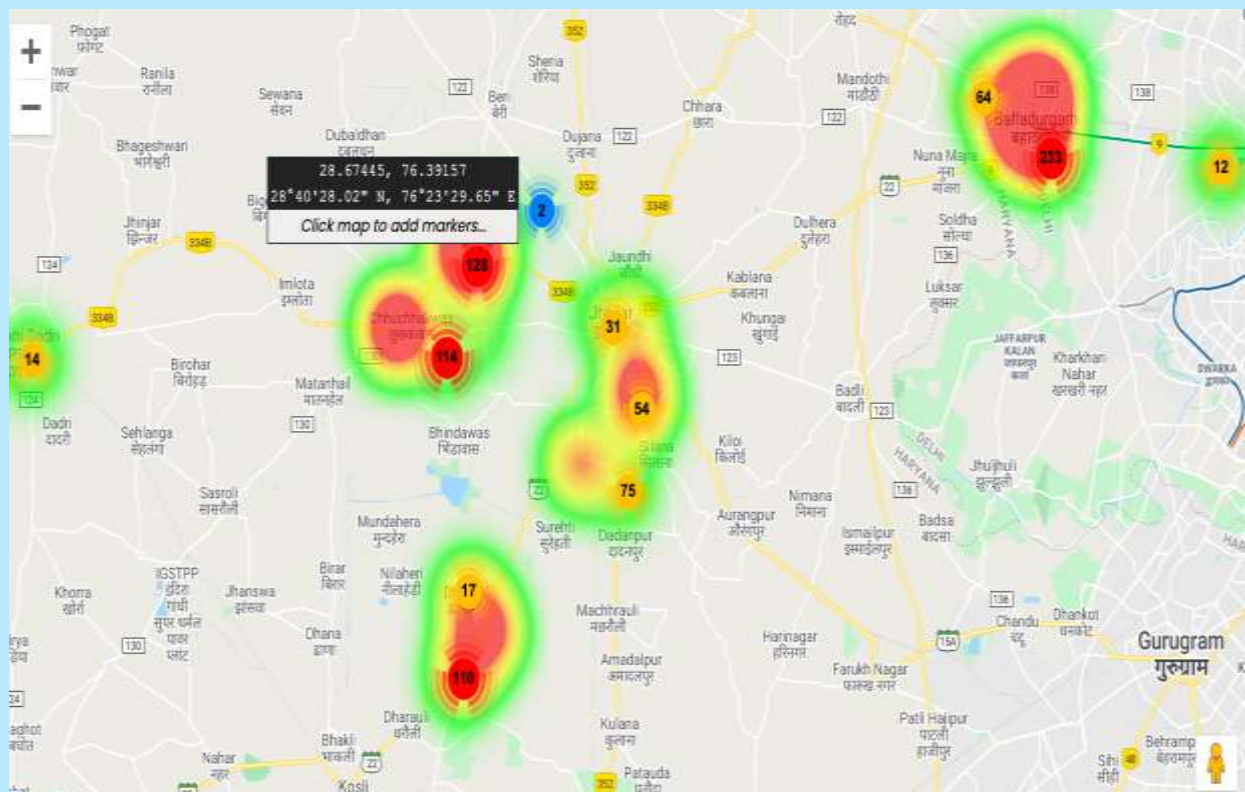
Response	Number	Percent
No	874	93.2
Yes	5	0.5
Blank	59	6.3
<b>Total</b>	<b>938</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Hisar  
(Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	864	92.1
["Tiredness", "No Symptom "]	3	0.3
["Tiredness"]	9	1
["Any Other", "No Symptom "]	1	0.1
Blank	61	6.5
<b>Total</b>	<b>938</b>	<b>100</b>



## District Jhajjar





**Table 1: Villages/ Area Covered in Jhajjar District**

<b>Village/Ward</b>	<b>Number</b>
3	1
SilaniZalim	1
Netaji Nagar Bahadurgarh	1
Adarsh Nagar	5
Chhuchhakwas	44
DhakaI	42
Dharampura	2
Dhup Singh	1
Gali 10 Vikas Nagar	13
Gali No. 8 Sainik Nagar	22
Gijarod	31
Girdharpur	42
Gwalison	44
Jahazgarh	49
Jajjhar Rod	1
Jatwada Mohalla	19
Jiya Garden	1
Kaliram	1
Khatiwas	44
Kila Mohala	22
Maroth	43
MP Majara	44
Mukeah Kumar	1
Netaji Nagar	43
Omaxe City	8
Patel Nagar	10
Patel Park	1
Sec 2	4
Sec 6 Bahadurgarh	4
Sec 7	15
Sec 9	44
Sec-6	2
Shakti Nagar	10
Silani	7
SilaniZalim	19
SilaniKeaho	16
SuLodha	1
Subana	86
Uphe Netaji Nagar	39
Ward - 04	43
Ward -03 Vikas Nagar	33

Ward No 15 Killa Mohalla	1
Blank	12
<b>Total</b>	<b>872</b>

**Table 2: Was the Area in Containment Zone, Jhajjar?**

Response	Number	Percent
No	849	97.4
Yes	18	2.1
Do Not Know	3	0.3
Blank	2	0.2
<b>Total</b>	<b>872</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Jhajjar?**

Response	Number	Percent
No	79	9.1
Yes	791	90.7
Blank	2	0.2
<b>Total</b>	<b>872</b>	<b>100</b>

**Table 4: Gender Distribution, Jhajjar**

Response	Number	Percent
Female	362	41.5
Male	497	57
Blank	13	1.5
<b>Total</b>	<b>872</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Jhajjar district**

Gender of Adult	N	Mean	Std. Deviation
Female	353	42.92	15.349
Male	476	43.46	16.52
Blank	13+30	8.77	15.632
<b>Total</b>	<b>872</b>	<b>42.7</b>	<b>16.565</b>

**Table 6: Occupation Distribution, Jhajjar**

Response	Number	Percent
Driver	5	0.6
Govt. Office	7	0.8
Health Care Worker	68	7.8

Migrant Labour	10	1.1
Police	3	0.3
Shop Owners/ Workers	33	3.8
Any Other	727	83.4
Blank	19	2.2
<b>Total</b>	<b>872</b>	<b>100</b>

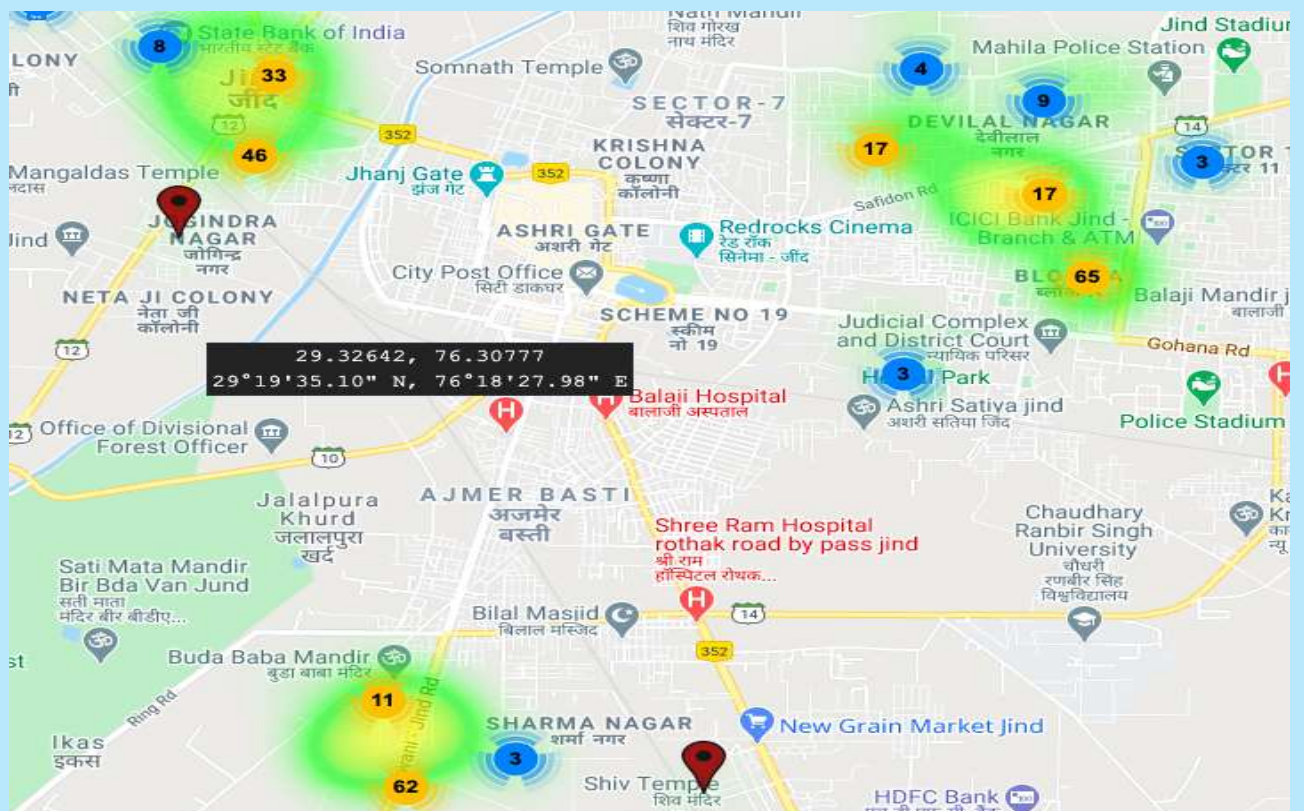
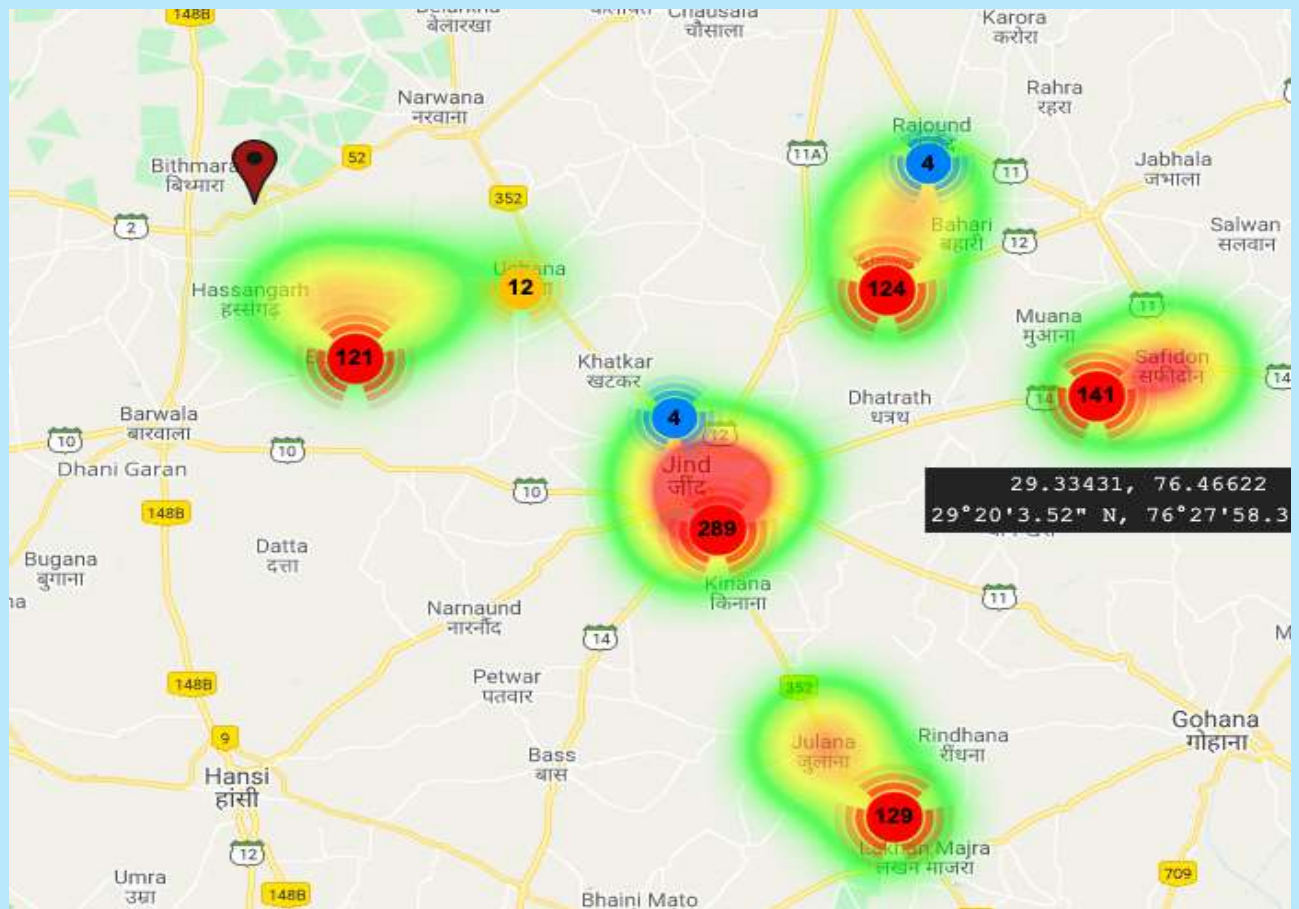
**Table 7: Was there Any Health Problem in Last 30 Days, Jhajjar**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	855	98.1
Blank	17	1.9
<b>Total</b>	<b>872</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Jhajjar  
(Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	789	90.5
["Body Ache", "No Symptom"]	1	0.1
["Loss of Smell", "Any Other"]	1	0.1
["Any Other"]	9	1
Blank	72	8.3
<b>Total</b>	<b>872</b>	<b>100</b>

## District Jind



**Table 1: Villages/ Area Covered in Jind District**

<b>Village/Ward</b>	<b>Number</b>
Alewa	44
Bhadurgarh	46
Durana	48
Durjanpur	45
Hathwala (JND 09)	43
Jnd-14-01	92
Jnd13q1	101
Julana	42
Kakdod	44
Katwal	44
NacharKhera	47
Patiala Chowk	72
Pauli	48
Polyclinic	82
Sant Nagar	18
Silla Kheri	47
Ward 15	13
Ward No 12	12
Ward No 14	12
Ward No. 3	13
Blank	5
<b>Total</b>	<b>918</b>

**Table 2: Was the Area in Containment Zone, Jind?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	905	98.6
Yes	7	0.8
Blank	6	0.7
<b>Total</b>	<b>918</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Jind?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	54	5.9
Yes	850	92.6
Blank	14	1.5
<b>Total</b>	<b>918</b>	<b>100</b>

**Table 4: Gender Distribution, Jind**

Response	Number	Percent
Female	405	44.1
Male	469	51.1
Blank	44	4.8
<b>Total</b>	<b>918</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Jind district**

Gender of Adult	N	Mean	Std. Deviation
Female	401	41.03	14.501
Male	463	51.13	16.555
Blank	44+10	-0.23	5.126
<b>Total</b>	<b>918</b>	<b>44.18</b>	<b>18.929</b>

**Table 6: Occupation Distribution, Jind**

Response	Number	Percent
Driver	7	0.8
Govt. Office	21	2.3
Health Care Worker	2	0.2
Migrant Labour	1	0.1
Police	2	0.2
Shop Owners/ Workers	66	7.2
Any Other	773	84.2
Blank	46	5
<b>Total</b>	<b>918</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Jind**

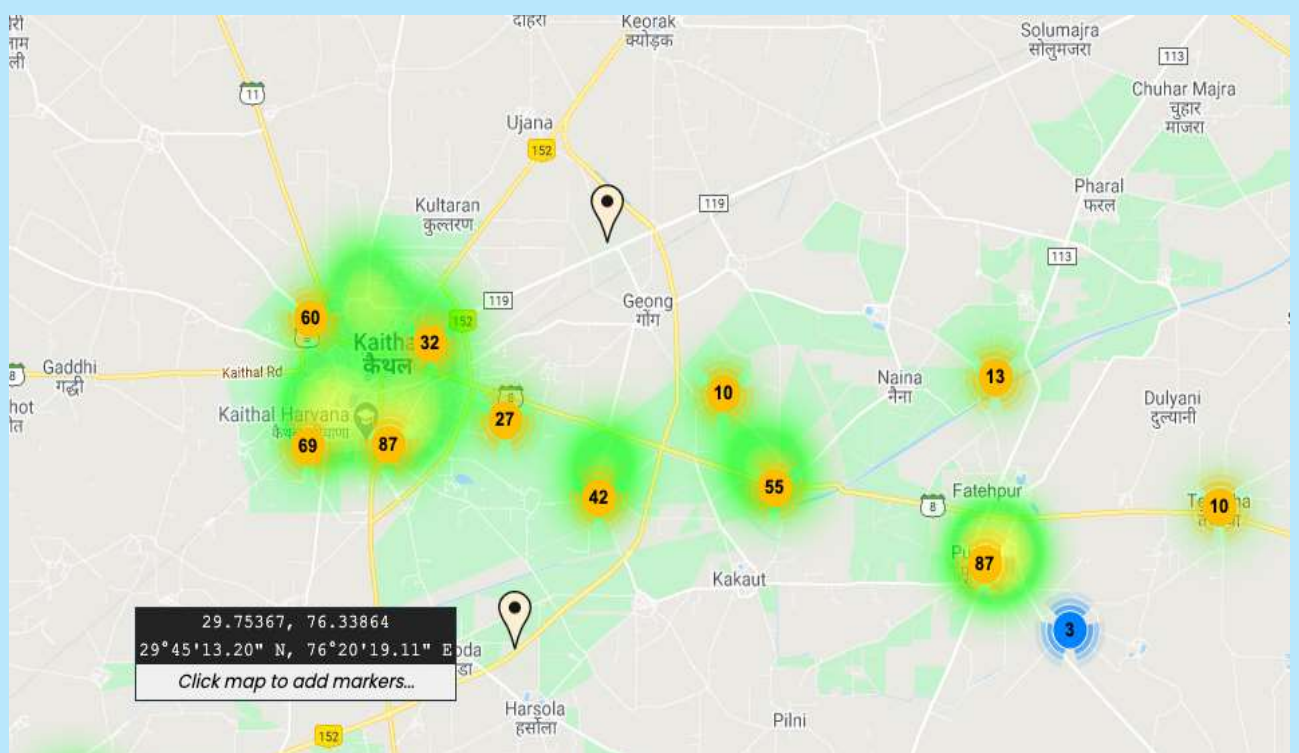
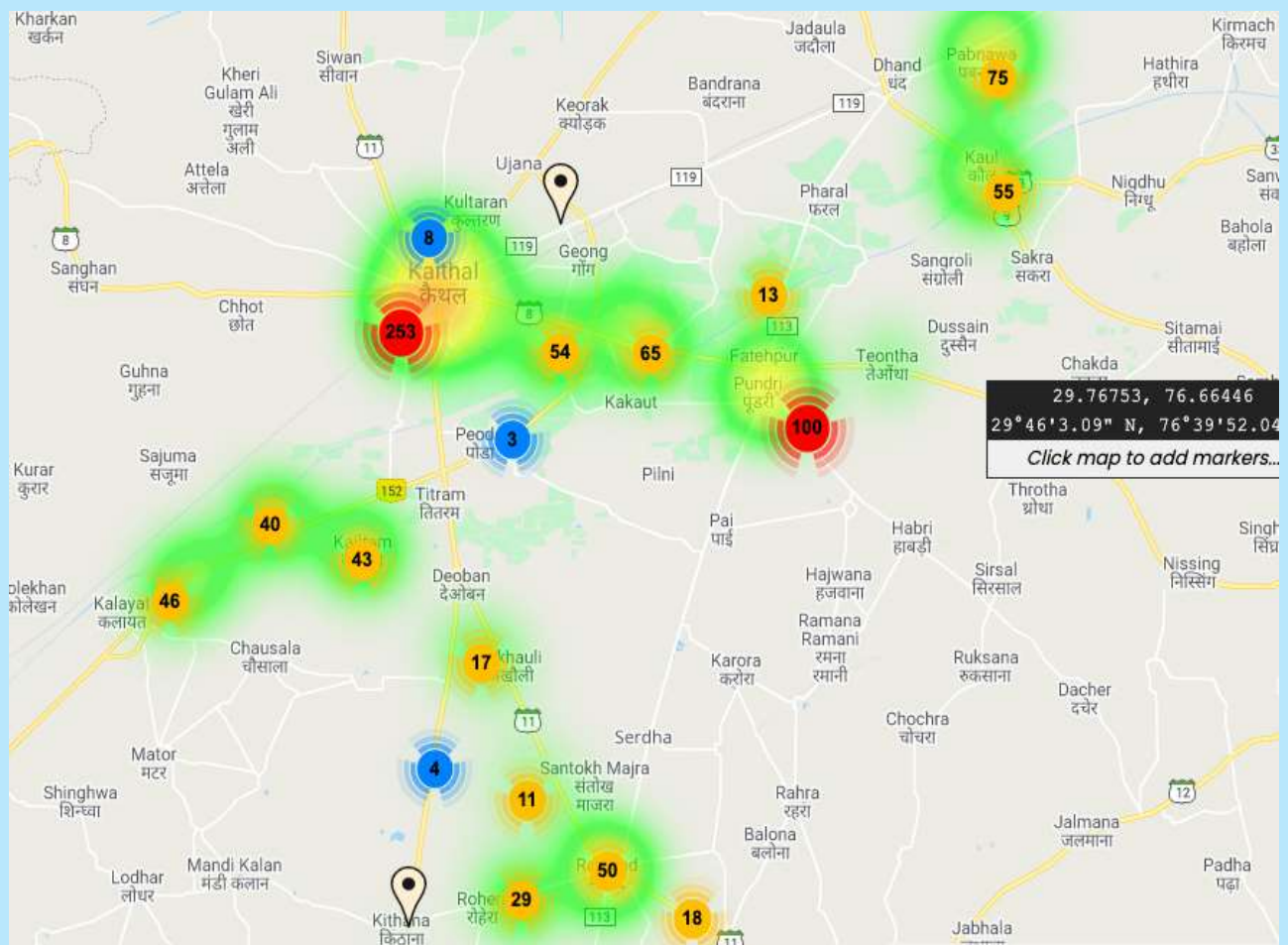
Response	Number	Percent
No	847	92.3
Yes	5	0.5
Blank	66	7.2
<b>Total</b>	<b>918</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Jind (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	849	92.5
["Any Other"]	1	0.1
["Body Ache", "Tiredness"]	1	0.1
["Cough", "Headache", "Tiredness"]	1	0.1
["Cough", "Headache"]	1	0.1
["Cough", "Running Nose", "Headache", "Tiredness"]	1	0.1
["Fever", "Cough"]	1	0.1
["Fever"]	1	0.1
["Headache"]	3	0.3
["Running Nose", "No Symptom "]	2	0.2
["Tiredness"]	1	0.1
["Any Other", "No Symptom"]	1	0.1
Blank	55	6.0
<b>Total</b>	<b>918</b>	<b>100</b>



## District Kaithal



**Table 1: Villages/ Area Covered in Kaithal District**

<b>Village/Ward</b>	<b>Number</b>
Mundri	1
Roheramajra	1
Arjun Nagar	15
Baata	42
Bala Ji Nagar	20
Balmiki Basti	1
Bittu	1
Chandana Gate	15
Chiranjive Colony	5
Chnadana Gate	1
D.A.V Colony Kaithal	11
Debian Gamdai	1
Employees	19
Hari Nagar	10
Kailram	44
Kaithal	5
Kaul	44
KharakPandwa	44
Khurana Road Ktl	1
Ktl-14	81
LakmhiVihar	11
Majra	18
Mundri	43
Nanakpuri Colony Khurana Road	1
Narar	44
Neem Wala	50
Pabnawa	88
Pintu	1
Pubdri	52
Rajound	32
Rajound	14
Ram Nagar	21
RoheraMajra	25
Saini Maholla	1
SampliKaeri	42
SarpanKheri	1
Sector 20 Kaithal	1
Sector-19 Kaithal	1
Shiv Nagar	20
Sirta Road	18

Village Pundri	42
Vishav Karam Colony	8
VpoMundri	1
VpoNeemwala	1
Ward No 3 Subhash Nagar Kaithal	1
Ward No 5BudhKund Near Khurana Road	1
<b>Total</b>	<b>900</b>

**Table 2: Was the Area in Containment Zone, Kaithal?**

Response	Number	Percent
No	869	96.6
Yes	30	3.3
Blank	1	0.1
<b>Total</b>	<b>900</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Kaithal?**

Response	Number	Percent
No	16	1.8
Yes	884	98.2
<b>Total</b>	<b>900</b>	<b>100</b>

**Table 4: Gender Distribution, Kaithal**

Response	Number	Percent
Female	397	44.1
Male	493	54.8
Blank	10	1.1
<b>Total</b>	<b>900</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Kaithal district**

Gender of Adult	N	Mean	Std. Deviation
Female	388	43.03	14.091
Male	487	48.48	15.498
Blank	10+15	1.3	7.273
<b>Total</b>	<b>900</b>	<b>45.56</b>	<b>15.785</b>

**Table 6: Occupation Distribution, Kaithal**

Response	Number	Percent
Driver	3	0.3
Govt. Office	14	1.6
Health Care Worker	23	2.6
Migrant Labour	7	0.8
Police	2	0.2

Shop Owners/ Workers	68	7.6
Any Other	717	79.7
Blank	66	7.3
<b>Total</b>	<b>900</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Kaithal**

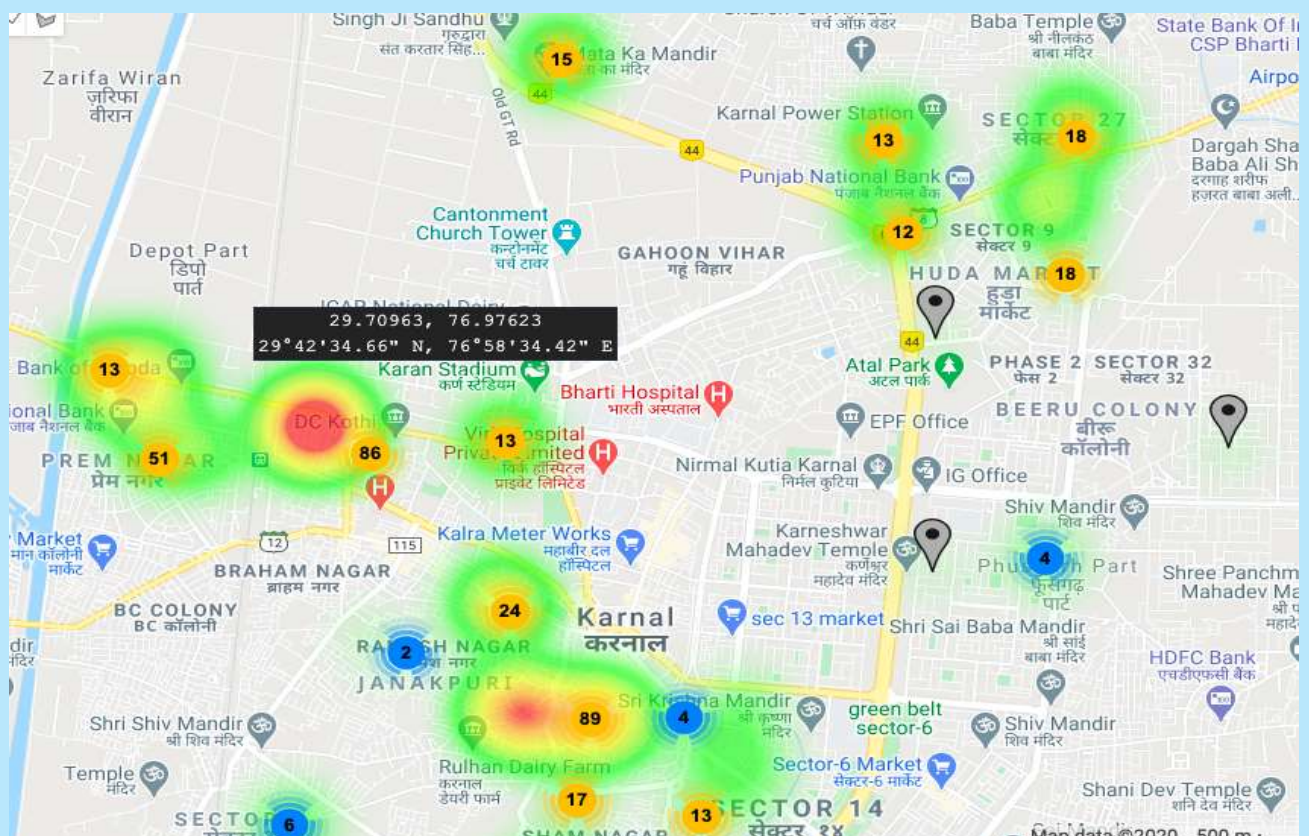
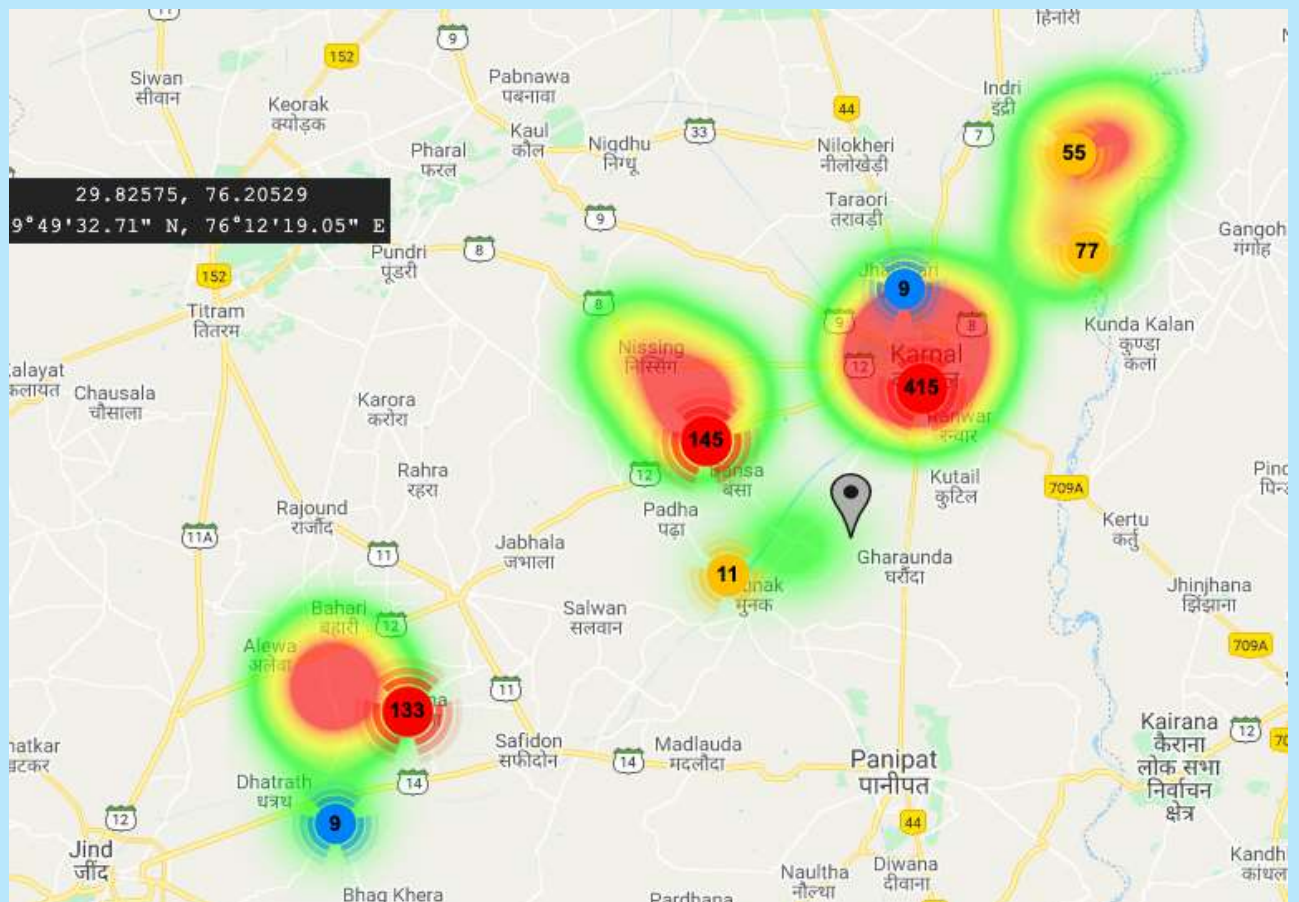
<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	879	97.7
Yes	9	1
Blank	12	1.3
<b>Total</b>	<b>900</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Kaithal (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	617	68.6
["Any Other", "No Symptom "]	3	0.3
["Breathlessness"]	1	0.1
["Cough", "No Symptom "]	1	0.1
["Cough"]	4	0.4
["Fever"]	4	0.4
["Headache", "No Symptom"]	1	0.1
["Headache"]	1	0.1
["Running Nose"]	1	0.1
["Sore Throat"]	1	0.1
["Stomach Ache"]	1	0.1
["Any Other"]	1	0.1
Blank	264	29.3
<b>Total</b>	<b>900</b>	<b>100</b>



## District Karnal



**Table 1: Villages/ Area Covered in Karnal District**

<b>Village/Ward</b>	<b>Number</b>
Pabana	1
Popra	4
132001	6
1507 Galino1 Ashok Nagar	1
372 Khatri Mohalla	1
409 But A Singh Colony	22
AlipurViran	44
Anchala	44
Biana	44
BibipurBrahamnan	2
Gagsina	45
Gangatheri	46
Gheer	46
H No 1508 Galino 1 Ashok Nagar	1
KoulKhera	47
Near Baba Lal Das Mandir	12
Near Mata Sundri Mandir	11
Near Panchayat Ghar	15
Near Ravidas Mandir	10
Pabana	42
Popra	45
Uphe Dhobi Mohalla	75
UPHC Indira Colony	104
UPHC Ram Nagar	3
Uphe Shiv Colony	1
Uphe Vasant Vihar	87
Uphe dhobi Mohalla	3
Uphe ramanagar	119
VillBibipurBrahamnan	42
Ward No 09	3
Ward No 1	12
Ward No 10	15
Ward No 12	13
Ward No 4	11
Blank	1
<b>Total</b>	<b>978</b>

**Table 2: Was the Area in Containment Zone, Karnal?**

Response	Number	Percent
No	972	99.4
Yes	2	0.2
Do Not Know	4	0.4
<b>Total</b>	<b>978</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Karnal?**

Response	Number	Percent
No	85	8.7
Yes	892	91.2
Blank	1	0.1
<b>Total</b>	<b>978</b>	<b>100</b>

**Table 4: Gender Distribution, Karnal**

Response	Number	Percent
Female	426	43.6
Male	474	48.5
Blank	78	8
<b>Total</b>	<b>978</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Karnal district**

Gender of Adult	N	Mean	Std. Deviation
Female	403	40.93	15.413
Male	438	49.99	15.045
Blank	78+59	-0.51	4.303
<b>Total</b>	<b>978</b>	<b>41.73</b>	<b>19.944</b>

**Table 6: Occupation Distribution, Karnal**

Response	Number	Percent
Driver	6	0.6
Govt. Office	10	1
Health Care Worker	5	0.5
Migrant Labour	12	1.2
Police	2	0.2
Shop Owners/ Workers	74	7.6
Any Other	792	81
Blank	77	7.9
<b>Total</b>	<b>978</b>	<b>100</b>



**Table 7: Was there Any Health Problem in Last 30 Days, Karnal**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	893	91.3
Yes	2	0.2
Blank	83	8.5
<b>Total</b>	<b>978</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Karnal (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	800	81.8
["Any Other", "No Symptom"]	2	0.2
["Cough", "No Symptom"]	1	0.1
["Cough"]	3	0.3
["Headache", "Tiredness"]	1	0.1
["Sore Throat"]	1	0.1
["Stomach Ache"]	1	0.1
["Tiredness"]	1	0.1
Blank	168	17.1
<b>Total</b>	<b>978</b>	<b>100</b>



**Table 1: Villages/ Area Covered in Kurukshetra District**

<b>Village/Ward</b>	<b>Number</b>
KnGamri	2
Krishna Nagar Gamri	1
Majri Mohalla SHAHBAD	14
5	1
7B Hargobind Nagar	1
Babain	44
Baraut	42
Bhorakh	45
Bir Mathana	43
Dd Colony	12
Ekta Vihar	13
Hargobind Nagar	3
Harigarh	46
Jainpue	49
Kishan Pura	47
KnGamri	59
Ladwa	46
Mahuvakheri	44
Majri Mohalla	75
Mathana	45
Royal Resort Road	30
Sanghor	44
Sectoq 5	85
Thaska	1
ThaskaMiranji	44
UpheKnGamri	11
Vashisth Colony	47
<b>Total</b>	<b>894</b>

**Table 2: Was the Area in Containment Zone, Kurukshetra?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	865	96.8
Yes	28	3.1
Do Not Know	1	0.1
<b>Total</b>	<b>894</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Kurukshetra?**

Response	Number	Percent
No	7	0.8
Yes	887	99.2
<b>Total</b>	<b>894</b>	<b>100</b>

**Table 4: Gender Distribution, Kurukshetra**

Response	Number	Percent
Female	515	57.6
Male	324	36.2
Transgender	1	0.1
Blank	54	6
<b>Total</b>	<b>894</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Kurukshetra district**

Gender of Adult	N	Mean	Std. Deviation
Female	492	44.93	14.368
Male	304	49.67	15.877
Blank	54+44	1.56	11.126
<b>Total</b>	<b>894</b>	<b>43.87</b>	<b>18.538</b>

**Table 6: Occupation Distribution, Kurukshetra**

Response	Number	Percent
Driver	2	0.2
Govt. Office	5	0.6
Health Care Worker	15	1.7
Migrant Labour	8	0.9
Police	1	0.1
Shop Owners/ Workers	34	3.8
Any Other	774	86.6
Blank	55	6.2
<b>Total</b>	<b>894</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Kurukshetra**

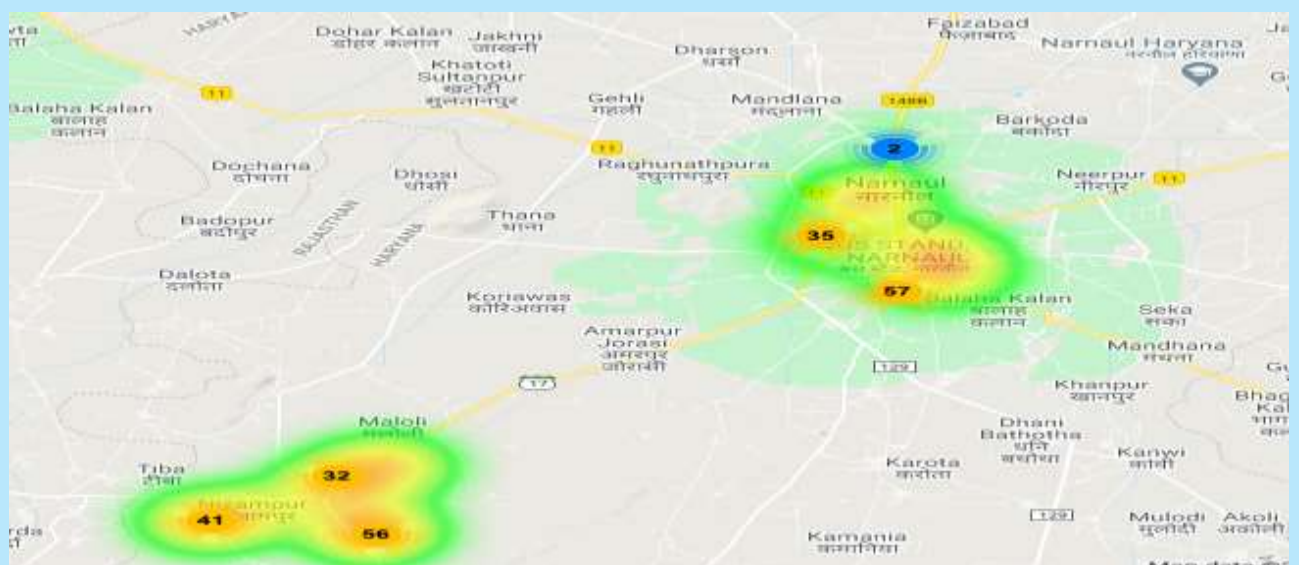
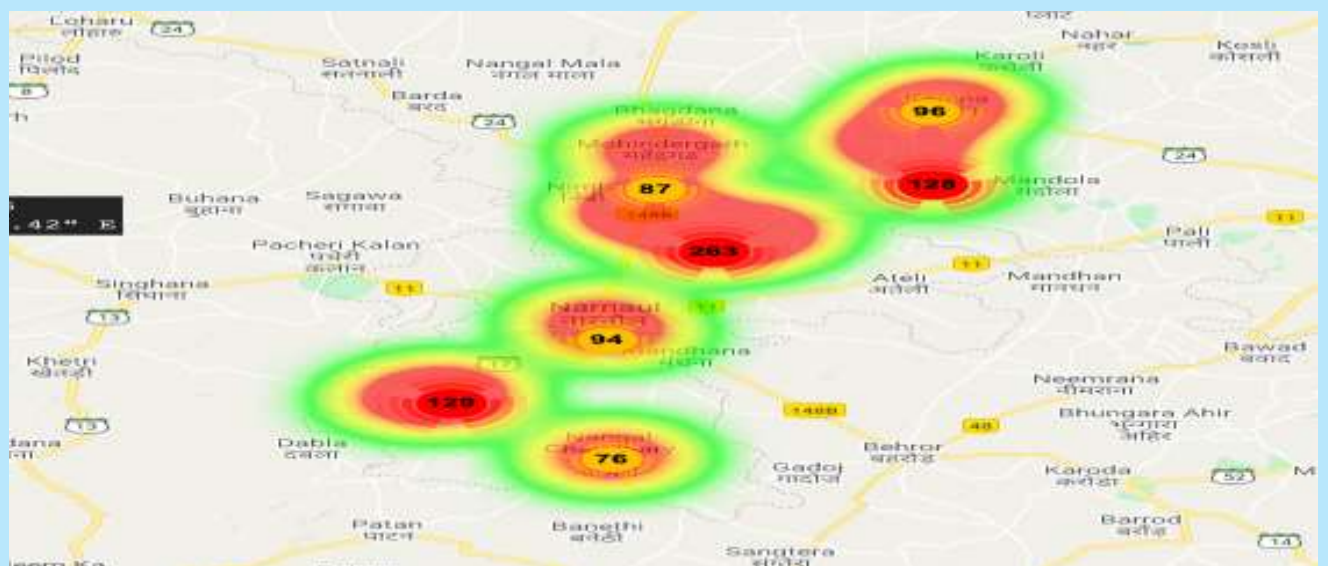
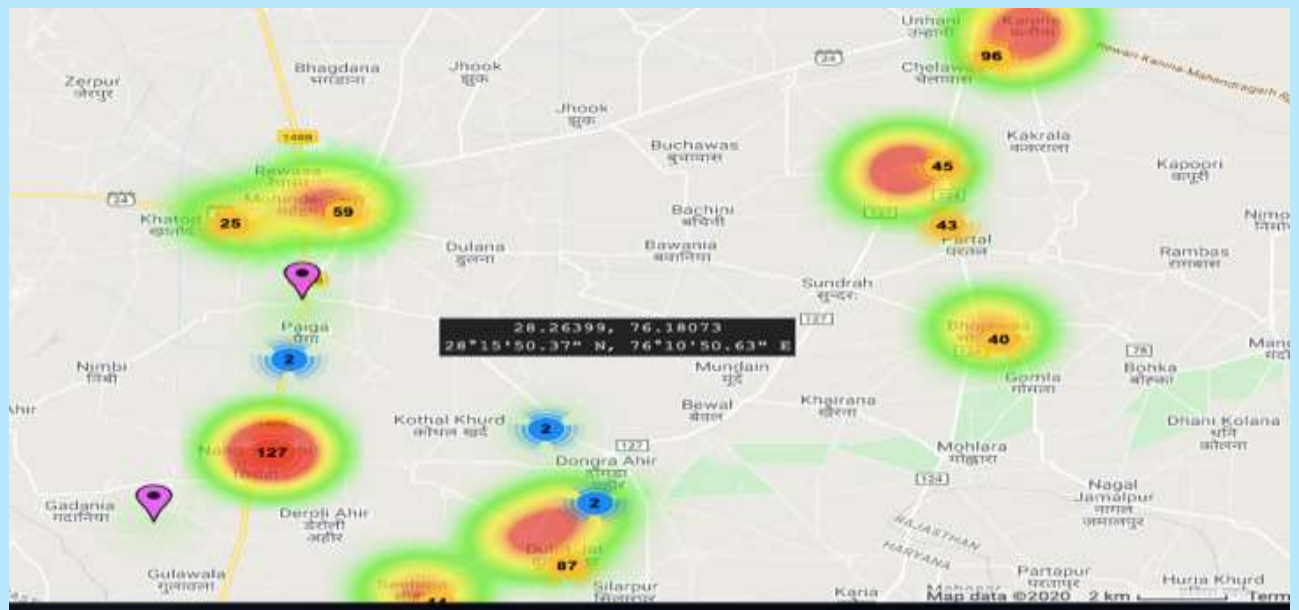
Response	Number	Percent
No	834	93.3
Yes	6	0.7
Blank	54	6
<b>Total</b>	<b>894</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Kurukshetra(Multiple response)**

Symptoms	Number	Percent
["No Symptom"]	818	91.5
["Any Other", "No Symptom"]	1	0.1
["Body Ache", "Tiredness"]	1	0.1
["Body Ache"]	2	0.2
["Breathlessness"]	1	0.1
["Fever", "Body Ache"]	1	0.1
["Fever"]	1	0.1
["Headache", "Body Ache", "Any Other"]	1	0.1
["Headache", "Body Ache"]	1	0.1
["Headache"]	1	0.1
["Sore Throat"]	2	0.2
["Stomach Ache"]	1	0.1
["Any Other"]	3	0.3
Blank	60	6.7
<b>Total</b>	<b>894</b>	<b>100</b>



## District Mahendragarh



**Table 1: Villages/ Area Covered in Mahendragarh District**

<b>Village/Ward</b>	<b>Number</b>
Bhojawas	2
Anaj Mandi	2
Atali	87
Balayach	43
Bhojawas	40
Chhilro	43
Devilal Colony Mahendergarh	9
Friends Colony	22
Gyarshi Devi	1
House No -5, Shakti Colony	1
Housing Board Hudda	16
Jai Colony	7
Kanina	47
Kath Mandi	19
Mamraj Colony Ward No 2	4
Mohanpur	45
Nangal	45
Nangal Sirohi	42
Nasibpur , Narnaul	1
Nimbhera	43
Nizampur	45
Pawera	41
Rao Tula Colony	22
Shakti Colony	14
Sihma	51
Sobha Sagar	29
Village Bhojawas	1
Ward 10	1
Ward 4	4
Ward 6	3
Ward 8	3
Ward 9	2
Ward 9 Village Bhojawas	4
Ward No 9	1
Ward No 10	2
Ward No 12	1
Ward No 12 Kanina MHN-16	1
Ward No 2	2



Ward No 2 Mamraj Colony	5
Ward No 2 Mamraj Colony Narnaul	3
Ward No 2 Mamraj Colony Narnaul	1
Ward No 2 Narnaul	1
Ward No 21	2
Ward No 21 Daya Nagar	1
Ward No 21 Daya Nagar Narnaul	1
Ward No 21 Narnaul	9
Ward No 3	2
Ward No 4	13
Ward No 48	1
Ward No 5 Kanina MHN-16	1
Ward No 6	15
Ward No 6 Kanina MHN 16	1
Ward No 6 Kanina MHN16	2
Ward No 7	1
Ward No 8	22
Ward No 9	7
Ward No 9 Nangal Choudhary	1
Ward No. 12 Kanina Mhn-087	9
Ward No. 5 Kanina Mhn-16	9
Ward No. 6 KaninaMhn -16	5
Ward No. 8 KaninaMhn - 16	10
Ward No.3 Kanina MHN-16	1
Ward No21 Narnaul	2
Ward No8	1
Blank	8
<b>Total</b>	<b>880</b>

**Table 2: Was the Area in Containment Zone, Mahendragarh District?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
Do Not Know	57	6.5
No	782	88.9
Yes	33	3.8
Blank	8	0.9
<b>Total</b>	<b>880</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Mahendragarh District?**

Response	Number	Percent
No	24	2.7
Yes	849	96.5
Blank	7	0.8
<b>Total</b>	<b>880</b>	<b>100</b>

**Table 4: Gender Distribution, Mahendragarh**

Response	Number	Percent
Female	454	51.6
Male	403	45.8
Blank	23	2.6
<b>Total</b>	<b>880</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Mahendragarh District**

Gender of Adult	N	Mean	Std. Deviation
Female	448	47.19	15.86
Male	398	47.71	17.724
Blank	23+11	3.26	14.735
<b>Total</b>	<b>880</b>	<b>46.26</b>	<b>18.142</b>

**Table 6: Occupation Distribution, Mahendragarh District**

Response	Number	Percent
Driver	2	0.2
Govt. Office	14	1.6
Health Care Worker	10	1.1
Migrant Labour	10	1.1
Police	3	0.3
Shop Owners/ Workers	32	3.6
Any Other	786	89.3
Blank	23	2.6
<b>Total</b>	<b>880</b>	<b>100</b>

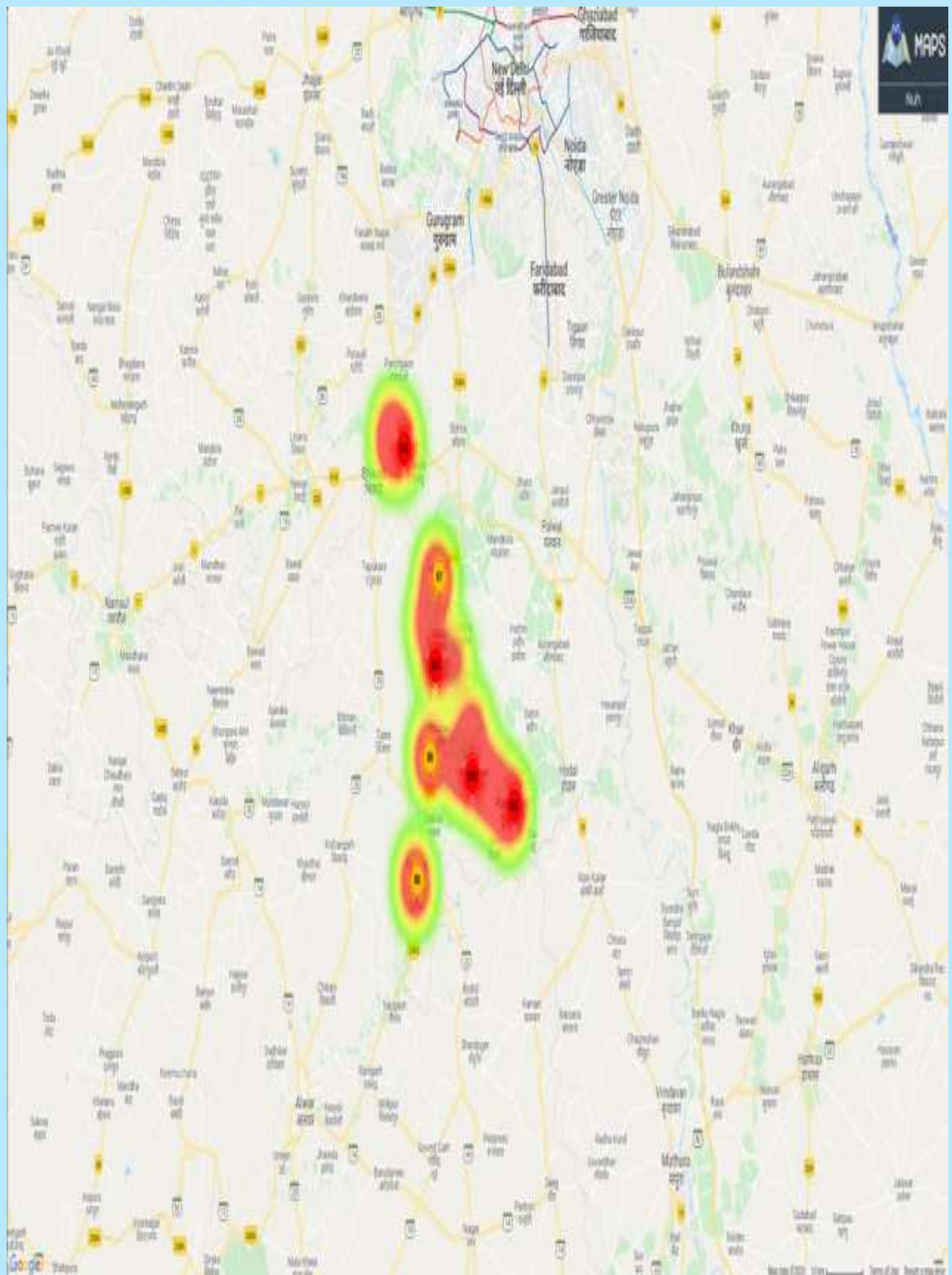
**Table 7: Was there Any Health Problem in Last 30 Days, Mahendragarh District**

Response	Number	Percent
No	846	96.1
Yes	6	0.7
Blank	28	3.2
<b>Total</b>	<b>880</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Mahendragarh District (Multiple response)**

Symptoms	Number	Percent
["No Symptom"]	821	93.3
["Body Ache"]	3	0.3
["Breathlessness"]	1	0.1
["Cough"]	1	0.1
["Fever", "Breathlessness"]	1	0.1
["Fever"]	1	0.1
["Headache"]	1	0.1
["Running Nose", "Sore Throat"]	1	0.1
["Running Nose"]	1	0.1
["Sore Throat", "No Symptom "]	1	0.1
["Sore Throat"]	1	0.1
["Stomach Ache"]	3	0.3
["Tiredness"]	2	0.2
["Any Other"]	11	1.3
Blank	31	3.5
<b>Total</b>	<b>880</b>	<b>100</b>

## District Nuh



**Table 1: Villages/ Area Covered in Nuh District**

<b>Village/Ward</b>	<b>Number</b>
W 10	1
W 11	1
Ward No 14 Nagina	1
Aakera	41
Bai	3
Bajidpur	45
Bajy	1
Bamrawat Patti Aker	1
Birsika, Ward-7	1
Dhadoli	44
FirojpurJhirkha	28
Fpj	1
Jaurasi	43
Marora	44
Nagina	78
NayebWaliGali,Nuh Mewat	1
Nh - Bai	33
Nh -09	44
Nuh	1
Nuh Urban	19
Nuh Ward 11	1
Pinangwan	38
Punhana	88
Rathiwas	44
Shah Chokha	46
Uton	44
Village Bai Mewat	2
W 10	16
W 11	7
W 12	13
W 13	1
W 6 Fpj	1
W 7	21
W 9	2
W4 Fpj	1
Ward -6,Village Birsika.	36
Ward No 5 Pinangwan	4
Ward No-6,Nuh Mewat	38
Ward No. 4 Fpj	1
Ward No.-6,Nuh	2
Ward No.14 Nagina	4

Ward No.6 Nuh Mewat	2
Ward-1	10
Ward-11	1
Ward-11 Nuh	3
Ward-12 Nuh	15
Ward-2, VillageBirsika.	1
Ward-5	1
Ward-6	1
Ward-7 ,Nuh Mewat	2
Blank	6
<b>Total</b>	<b>883</b>

**Table 2: Was the Area in Containment Zone, Nuh?**

Response	Number	Percent
No	795	90
Yes	41	4.6
Do Not Know	46	5.2
Blank	1	0.1
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Nuh?**

Response	Number	Percent
No.	12	1.4
Yes	871	98.6
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 4: Gender Distribution, Nuh**

Response	Number	Percent
Female	405	45.9
Male	472	53.5
Blank	6	0.7
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Nuh district**

Gender of Adult	N	Mean	Std. Deviation
Female	400	39.55	14.944
Male	467	39.18	16.915
Blank	5+11	9.6	23.702
<b>Total</b>	<b>883</b>	<b>39.18</b>	<b>16.219</b>

**Table 6: Occupation Distribution, Nuh**

Response	Number	Percent
Any Other	727	82.3
Driver	17	1.9
Govt. Office	15	1.7
Health Care Worker	37	4.2
Migrant Labour	6	0.7
Police	1	0.1
Shop Owners/ Workers	73	8.3
Blank	7	0.8
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Nuh**

Response	Number	Percent
No	820	92.9
Yes	47	5.3
Blank	16	1.8
<b>Total</b>	<b>883</b>	<b>100</b>

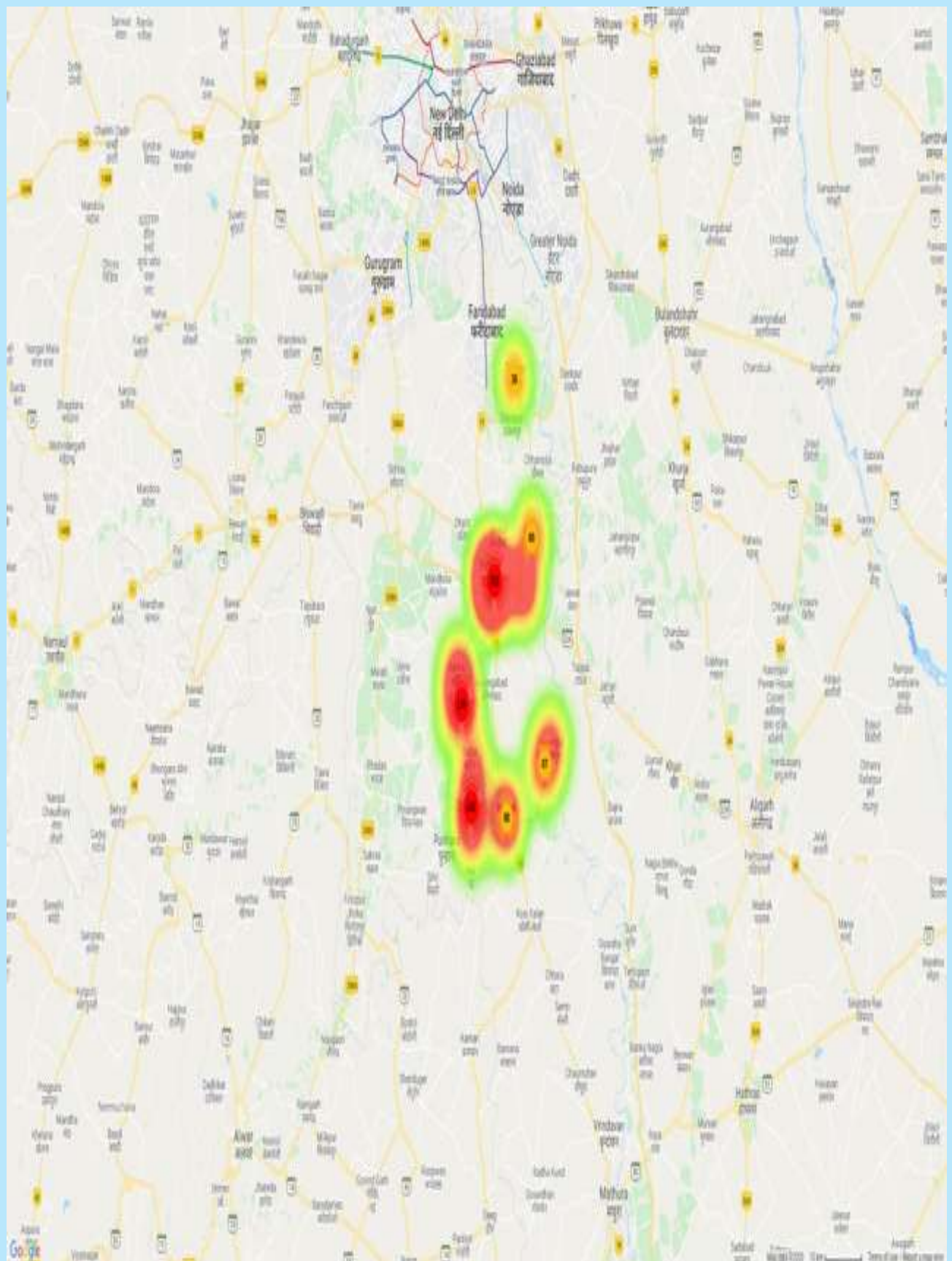
**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Nuh (Multiple response)**

Symptoms	Number	Percent
["No Symptom "]	757	85.7
["Any Other", "No Symptom"]	3	0.3
["Body Ache", "Tiredness"]	6	0.7
["Body Ache"]	7	0.8
["Cough", "Headache"]	1	0.1
["Cough", "Running Nose", "Sore Throat"]	1	0.1
["Cough"]	3	0.3
["Fever", "Body Ache", "Tiredness"]	1	0.1
["Fever", "Cough", "Sore Throat", "Headache", "Body Ache"]	1	0.1
["Fever", "Running Nose", "Sore Throat"]	1	0.1
["Fever", "Running Nose"]	1	0.1
["Headache", "Body Ache"]	3	0.3
["Headache", "Tiredness"]	3	0.3
["Headache"]	5	0.6
["Running Nose", "Body Ache"]	2	0.2
["Running Nose"]	6	0.7
["Sore Throat", "Headache", "Body Ache"]	2	0.2
["Sore Throat"]	5	0.6



["Tiredness"]	2	0.2
["Any Other"]	38	4.3
Blank	35	4.0
<b>Total</b>	<b>883</b>	<b>100</b>

## District Palwal



**Table 1: Villages/ Area Covered in Palwal District**

<b>Village/Ward</b>	<b>Number</b>
Jawahar Nagar Palwal	1
Abhishek Bhatta	11
Adarash Colony Ward 15	1
Amarpur	44
Andhop	96
Bahre Ka Mohalla NagalJatt	1
Bhaindoli	43
Bharat Bhatta	8
GorhillaMohala	44
Gorwal Bhatta	12
Gorwal Bhatta Khilluka	1
Hassanpur	44
Hathin	4
Jawahar Nagar	43
Khaika	44
Krishan's Colony	45
Linepura Mohalla	44
Maholi	44
NagalJaat	43
Om Bhatta	5
Palwal	1
Peach Colony	43
Pelak	44
Ram Nagar	46
Rohtya Mohalla	1
S/C Sihol	44
Shri Radha Bhatta	1
Sri Baba Lok Dev	7
VillNagalJat	1
Ward 13	11
Ward 15	4
Ward 4	2
Ward 6	14
Ward 6 Hathin	1
Ward 7	1
Ward 7 Hathin	1
Ward 8	6
Ward 8 Hathin	1
Ward No 11	43
Ward No 15	18
Ward No 6	2

Ward No 7	1
Ward No 8	2
Ward No.15	22
Ward No.15 Adarash Colony	1
Blank	1
<b>Total</b>	<b>897</b>

**Table 2: Was the Area in Containment Zone, Palwal?**

Response	Number	Percent
No	870	97
Yes	12	1.3
Do Not Know	15	1.7
<b>Total</b>	<b>897</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Palwal?**

Response	Number	Percent
No	15	1.7
Yes	882	98.3
<b>Total</b>	<b>897</b>	<b>100</b>

**Table 4: Gender Distribution, Palwal**

Response	Number	Percent
Female	492	54.8
Male	389	43.4
Blank	16	1.8
<b>Total</b>	<b>897</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Palwal district**

Gender of Adult	N	Mean	Std. Deviation
Female	491	40.77	14.86
Male	387	45.81	16.833
Blank	16+3	-1	0
<b>Total</b>	<b>897</b>	<b>42.2</b>	<b>16.848</b>

**Table 6: Occupation Distribution, Palwal District**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
Driver	2	0.2
Govt. Office	8	0.9
Health Care Worker	15	1.7
Migrant Labour	10	1.1
Police	3	0.3
Shop Owners/ Workers	81	9
Any Other	762	84.9
Blank	16	1.8
<b>Total</b>	<b>897</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Palwal District**

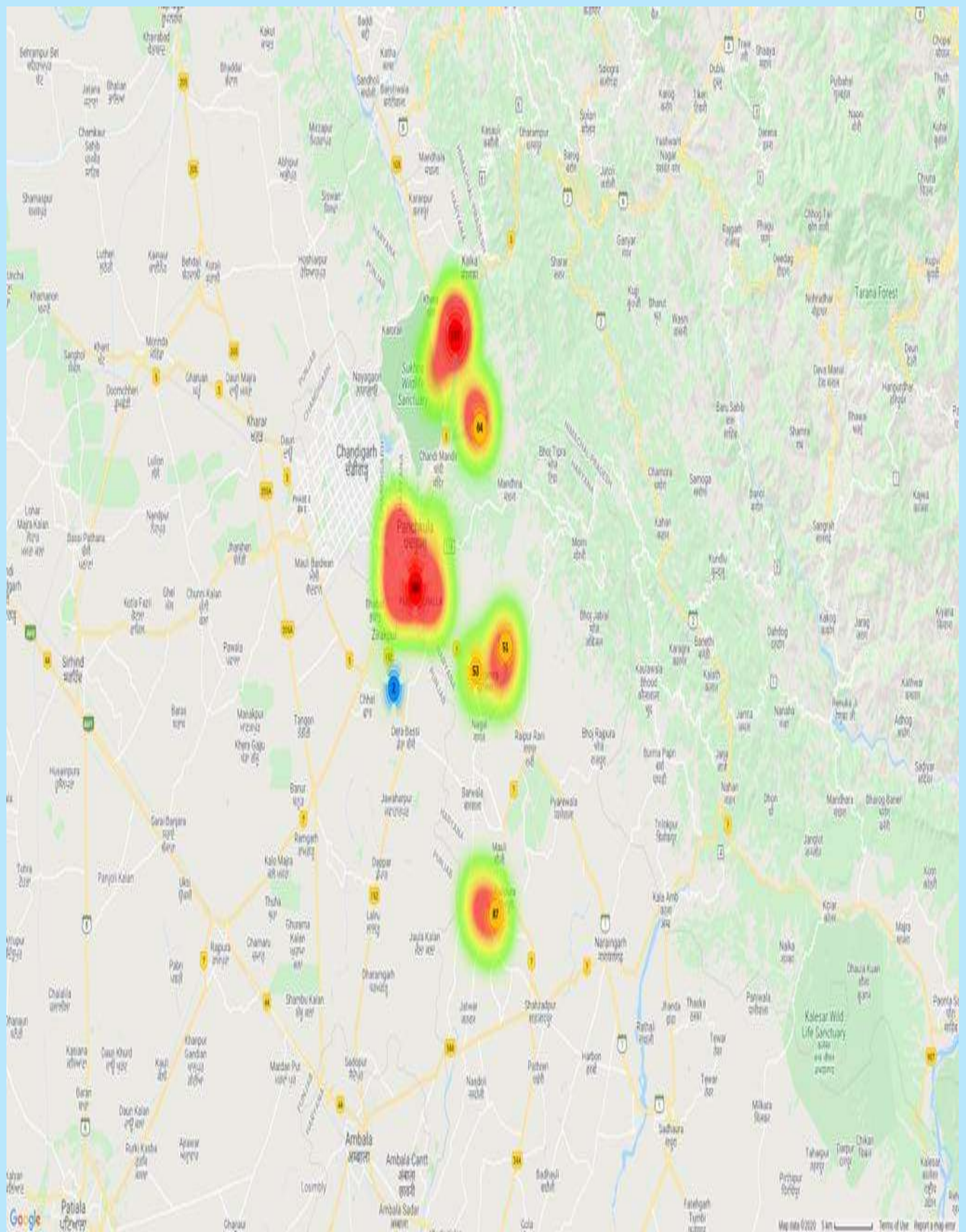
<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	869	96.9
Yes	6	0.7
Blank	22	2.5
<b>Total</b>	<b>897</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Palwal District (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["Body Ache", "Stomach Ache"]	1	0.1
["Cough"]	2	0.2
["Fever", "Cough", "Tiredness"]	1	0.1
["Headache", "Any Other"]	1	0.1
["No Symptom"]	862	96.1
["Running Nose", "Sore Throat"]	1	0.1
["Sore Throat"]	1	0.1
["Any Other"]	3	0.3
Blank	25	2.7
<b>Total</b>	<b>897</b>	<b>100</b>



## District Panchkula



**Table 1: Villages/ Area Covered in Panchkula District**

<b>Village/Ward</b>	<b>Number</b>
BcwSurajpur	4
Chiakn	42
GD Sector 20	172
Kakrali(08)	44
Kharkua	42
Kot	44
Panchkula	1
Pinjore	89
Pkl Sec 26	1
Pkl-03-009	1
R	1
Ratpur Colony	44
Rattewali /Cluster1	42
Sec 26 Panchkula	87
Sector 16	93
Shyamto =Cluster4	43
Surajpur	40
Toda	44
9780816024	1
Blank	1
<b>Total</b>	<b>836</b>

**Table 2: Was the Area in Containment Zone, Panchkula?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	799	95.6
Yes	36	4.3
Do Not Know	1	0.1
<b>Total</b>	<b>836</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Panchkula?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	8	1
No	3	0.4
Yes	823	98.4
Blank	2	0.2
<b>Total</b>	<b>836</b>	<b>100</b>



**Table 4: Gender Distribution, Panchkula**

Response	Number	Percent
Female	461	55.1
Male	368	44
Blank	7	0.8
<b>Total</b>	<b>836</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Panchkula district**

Gender of Adult	N	Mean	Std. Deviation
Female	439	41.75	13.987
Male	352	50	16.795
Blank	7+38	22.43	23.266
<b>Total</b>	<b>836</b>	<b>45.22</b>	<b>16.034</b>

**Table 6: Occupation Distribution, Panchkula**

Response	Number	Percent
Driver	5	0.6
Govt. Office	9	1.1
Health Care Worker	22	2.6
Migrant Labour	4	0.5
Police	1	0.1
Shop Owners/ Workers	29	3.5
Any Other	743	88.9
Blank	23	2.8
<b>Total</b>	<b>836</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Panchkula**

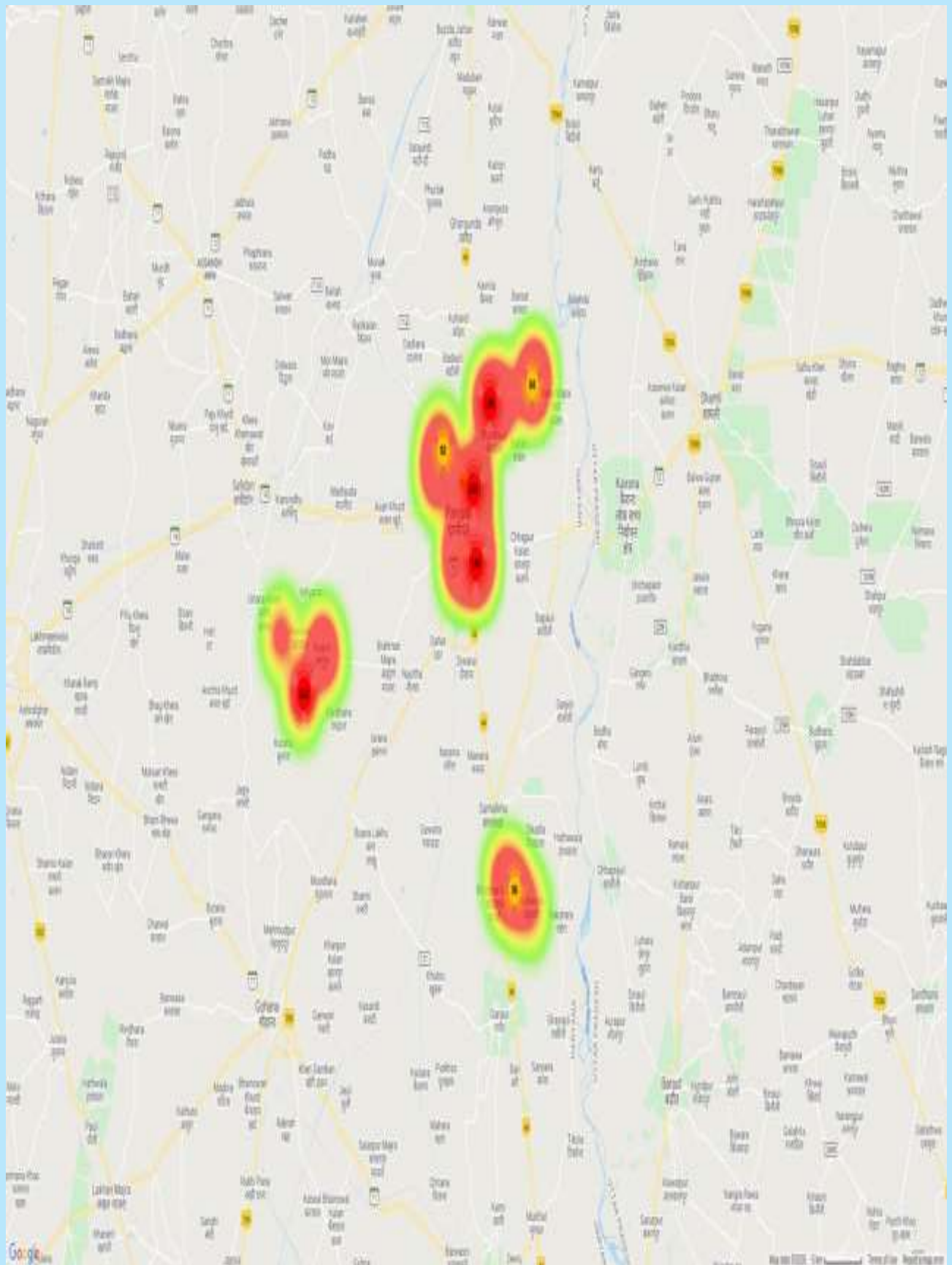
Response	Number	Percent
No	821	98.2
Yes	9	1.1
Blank	6	0.7
<b>Total</b>	<b>836</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Panchkula (Multiple response)**

Symptoms	Number	Percent
["No Symptom"]	644	77
["Body Ache"]	1	0.1
["Cough"]	1	0.1
["Fever", "Body Ache"]	1	0.1

["Fever", "Running Nose"]	1	0.1
["Fever"]	4	0.5
["Headache", "Body Ache"]	1	0.1
["Headache", "No Symptom"]	2	0.2
["Headache"]	2	0.2
["Running Nose", "Body Ache"]	1	0.1
["Any Other"]	88	10.5
Blank	90	10.7
<b>Total</b>	<b>836</b>	<b>100</b>

## District Panipat



**Table 1: Villages/ Area Covered in Panipat District**

<b>Village/Ward</b>	<b>Number</b>
Ahar	44
Alupur	41
Ashok Vihar	6
Aupur	1
Azad Nagar	6
Barana	46
Basant Kunj	24
Bhagat Singh Enclave	11
Cluster - 1 New Ramesh Nagar	21
Cluster - Hari Singh Colony	28
Cluster -1 Vijay Nagar	15
Cluster -1 W R Colony	22
DeraSapera	33
DeraSikligar	44
DeraSpera	4
Dumiana	23
G Taghlyan	42
Gali No. 3 Raj Nagar	6
Gali No. 4 Sanjay Colony Pnp	3
Gali No. 5 Azad Nagar	5
Gali No.5 KRISHANPURA PNP	1
Gali No.5 Shiv Nagar	8
GarhiSikanderpur	46
Indo Farm	22
Kabri	46
Khotpura	62
Kishanpura	13
KorapanaAhar Panipat	1
Mahauti	17
Mahawati	10
Malij Enclave	1
Malik	26
Mauhati	1
Mc WaliGaliKrishanpura	8
New Ramesh Nagar	1
P.H.C Pattikilyana /04	32
Raj Nagar	16
Risaku Road Gali No.1	1
Risalu	22
Sanjay Colony	8
Shiv Nagar	14

V.P.O Mahauti	1
V.P.O. Pattikilyana	13
Village GarhiTyagyan	1
VpoKhotpura	1
Ward 10	23
Ward 3	22
Ward 6	22
Ward 7	14
Blank	5
<b>Total</b>	<b>883</b>

**Table 2: Was the Area in Containment Zone, Panipat?**

Response	Number	Percent
No	877	99.3
Yes	4	0.5
Do Not Know	2	0.2
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Panipat?**

Response	Number	Percent
No	51	5.8
Yes	830	94
Blank	2	0.2
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 4: Gender Distribution, Panipat**

Response	Number	Percent
Female	457	51.8
Male	377	42.7
Blank	49	5.5
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Panipat district**

Gender of Adult	N	Mean	Std. Deviation
Female	441	37.26	14.097
Male	365	47.65	16.792
Blank	49+28	1.18	10.708
<b>Total</b>	<b>883</b>	<b>39.63</b>	<b>18.553</b>

**Table 6: Occupation Distribution, Panipat**

Response	Number	Percent
Driver	2	0.2
Govt. Office	7	0.8
Health Care Worker	8	0.9
Migrant Labour	52	5.9
Shop Owners/ Workers	46	5.2
Any Other	713	80.7
Blank	55	6.2
<b>Total</b>	<b>883</b>	<b>100</b>

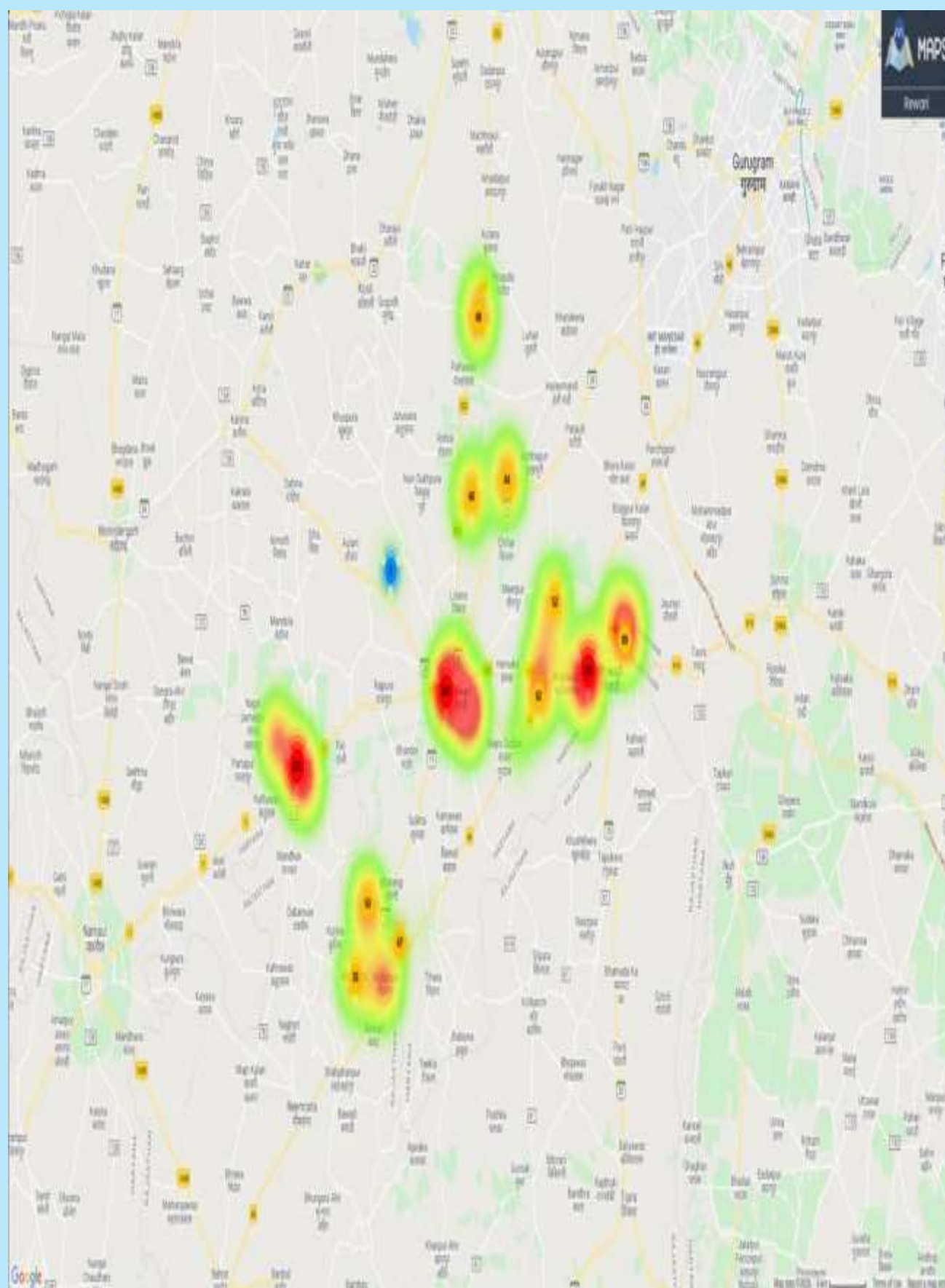
**Table 7: Was there Any Health Problem in Last 30 Days, Panipat**

Response	Number	Percent
No	807	91.4
Yes	8	0.9
Blank	68	7.7
<b>Total</b>	<b>883</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Panipat (Multiple response)**

Symptoms	Number	Percent
["No Symptom "]	795	90
["Any Other", "No Symptom "]	3	0.3
["Body Ache", "No Symptom "]	1	0.1
["Body Ache"]	1	0.1
["Breathlessness"]	3	0.3
["Cough", "Sore Throat"]	2	0.2
["Cough"]	1	0.1
["Fever", "Sore Throat"]	1	0.1
["Fever"]	5	0.6
["Any Other"]	2	0.2
Blank	69	7.8
<b>Total</b>	<b>883</b>	<b>100</b>

## District Rewari





**Table 1: Villages/ Area Covered in Rewari District**

<b>Village/Ward</b>	<b>Number</b>
Sector 4 Rewari	1
Akera	2
Basduda	43
Dhakia	43
Dhani	43
Dharuhera	1
Gurawara	44
Jaitpur	44
Jsp Kheda	44
Khada Basti	27
Khaliyawas Mohalla	22
Khatwali	1
Manethi	45
Masani	44
Nai Basti	9
Narayan Vihar	43
New Housing Board Sec 6 Dharuhera	22
Nilgiri Colony Dharuhera	20
Nilgiri Dharuhera	2
Quatabpur	74
Rampura Chouk	1
Rwr-15	22
Rwr/09	1
S. Khandora	1
Sadipur	27
Sadipur	1
Sc Khandora	42
Sector	1
Sector 4	11
Sector 4 ,Rewari	1
Sector 4 Rewari	22
Sector-4	23
Sector-4 Rewari	1
Sector-4,Rewari	4
Sector4	8
Sector4 ,Rewari	2
Sector4 Rewari	8
Sector4 Rewari	2
Sector4 REWARI	1
Sector4,Rewari	5
Shadipur	15

Shadipur	1
Tankri	44
VillDhakia	1
VillKhatwali	43
Village Khandora	1
Vpo	2
VpoAkeria	40
Blank	3
<b>Total</b>	<b>908</b>

**Table 2: Was the Area in Containment Zone, Rewari?**

Response	Number	Percent
No	813	89.5
Yes	94	10.4
Blank	1	0.1
<b>Total</b>	<b>908</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Rewari?**

Response	Number	Percent
No	9	1
Yes	899	99
<b>Total</b>	<b>908</b>	<b>100</b>

**Table 4: Gender Distribution, Rewari**

Response	Number	Percent
Female	362	39.9
Male	460	50.7
Blank	86	9.5
<b>Total</b>	<b>908</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Rewari district**

Gender of Adult	N	Mean	Std. Deviation
Female	348	41.22	15.482
Male	437	45.05	20.1
Blank	86+37	-1	0
<b>Total</b>	<b>908</b>	<b>38.97</b>	<b>21.831</b>

**Table 6: Occupation Distribution, Rewari**

Response	Number	Percent
Driver	4	0.4
Govt. Office	15	1.7
Health Care Worker	33	3.6
Migrant Labour	22	2.4
Police	1	0.1

Shop Owners/ Workers	54	5.9
Any Other	644	70.9
Blank	135	14.9
<b>Total</b>	<b>908</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Rewari**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	808	89
Yes	2	0.2
Blank	98	10.8
<b>Total</b>	<b>908</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Rewari (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	805	88.7
["Body Ache"]	1	0.1
["Cough", "Sore Throat"]	1	0.1
["Cough"]	1	0.1
["Headache"]	1	0.1
["Running Nose", "Headache"]	1	0.1
["Running Nose"]	3	0.3
["Tiredness"]	1	0.1
["Any Other"]	1	0.1
Blank	93	10.2
<b>Total</b>	<b>908</b>	<b>100</b>

## District Rohtak



**Table 1: Villages/ Area Covered in Rohtak District**

<b>Village/Ward</b>	<b>Number</b>
Morkheri	1
9	1
2	15
3	29
6	1
Ajaib	50
Bhara N	36
Girawar	51
Hari Singh Col	23
Hassangarh	85
KharakJatan	41
Lakhan Majra	50
Madina K	49
Morkheri	59
Nandal	44
Nidana	47
Nindana Khas	42
Rohtas	1
Samcahana	48
Shri Pal	1
Sugar Mill	69
Vishal Nagar	95
Ward 2	15
Ward 3	21
Korsan	1
Blank	7
<b>Total</b>	<b>882</b>

**Table 2: Was the Area in Containment Zone, Rohtak?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	714	81
Yes	167	18.9
Do Not Know	1	0.1
<b>Total</b>	<b>882</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Rohtak?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	58	6.6
Yes	823	93.3
Blank	1	0.1
<b>Total</b>	<b>882</b>	<b>100</b>

**Table 4: Gender Distribution, Rohtak**

Response	Number	Percent
Female	466	52.8
Male	316	35.8
Blank	100	11.3
<b>Total</b>	<b>882</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Rohtak district**

Gender of Adult	N	Mean	Std. Deviation
Female	440	45.95	17.098
Male	293	47.52	17.698
Blank	100+49	0.13	6.994
<b>Total</b>	<b>882</b>	<b>41</b>	<b>22.33</b>

**Table 6: Occupation Distribution, Rohtak**

Response	Number	Percent
Driver	11	1.2
Govt. Office	24	2.7
Health Care Worker	14	1.6
Migrant Labour	13	1.5
Police	3	0.3
Shop Owners/ Workers	13	1.5
Any Other	697	79
Blank	107	12.1
<b>Total</b>	<b>882</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Rohtak**

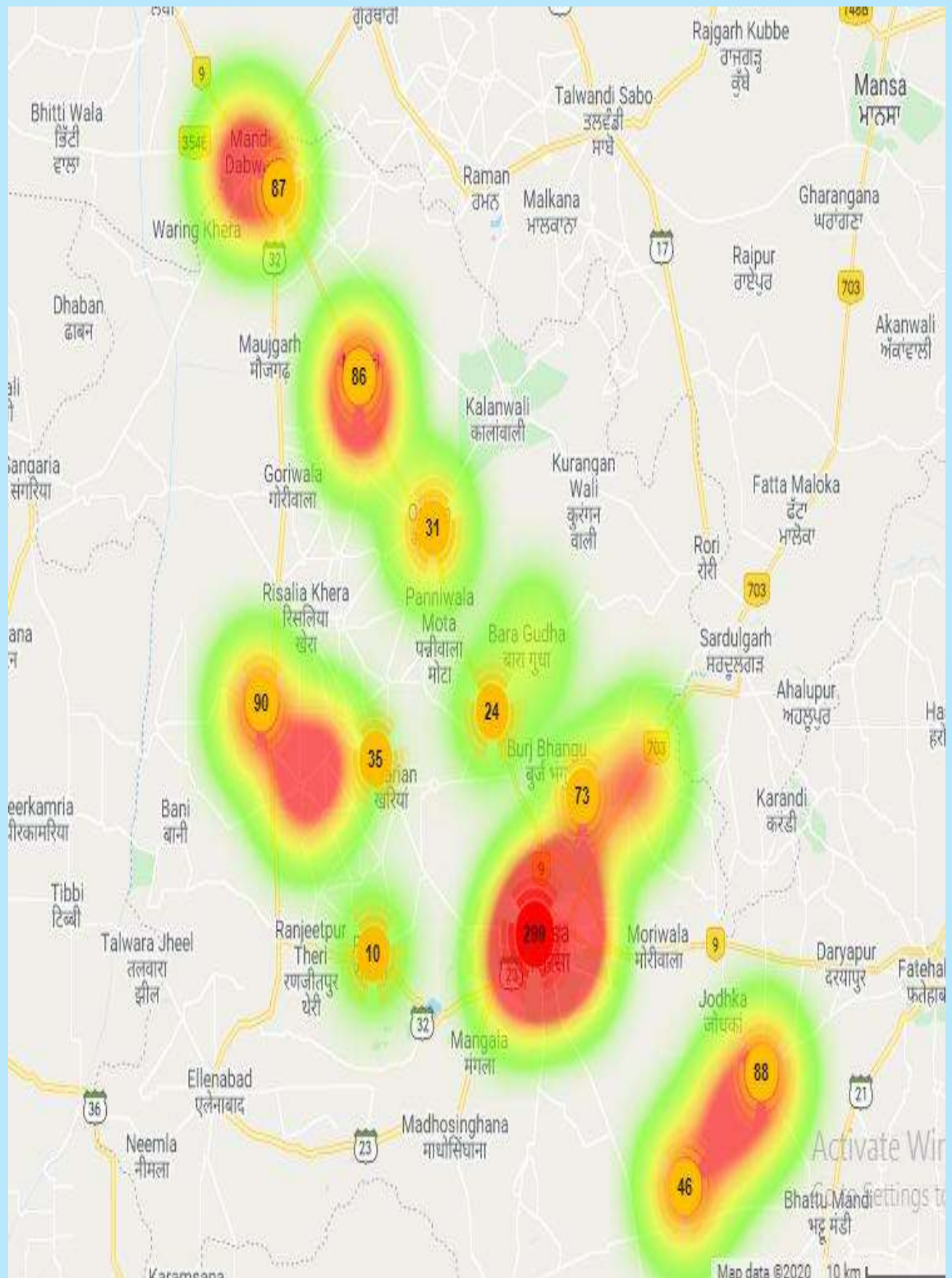
Response	Number	Percent
No	782	88.7
Blank	100	11.3
<b>Total</b>	<b>882</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Rohtak (Multiple response)**

Symptoms	Number	Percent
["No Symptom "]	780	88.4
Blank	102	11.5
<b>Total</b>	<b>882</b>	<b>100</b>



## District Sirsa



**Table 1: Villages/ Area Covered in Sirsa District**

<b>Village/Ward</b>	<b>Number</b>
Khairpur	3
Bhagat Singh Colony	1
Burj Karam Gardh	43
Chatergarh Patti	88
Ding	47
Fr Colony	5
Gadli	44
Ghoranwali	44
Gindra	44
Inderpuri	70
Ipm	27
Kabir Basti	1
Kahirpur	1
Karanwala	38
Keharwala	53
KhairPur	98
Kingre	43
Kkhairpur	1
Lpm	1
Mallewaala	42
Mithri	44
Odhan	43
Shakti Nagar	2
Sra 04 Baragudha	36
Srs-08 Mallewala	2
Srs16	1
Ward 17	2
Ward 19	25
Ward 5	22
Ward No 2	4
Ward No 2,Mandi Dabwali	1
Ward No 3	17
Ward No 6	14
Ward No 88	1
Blank	2
<b>Total</b>	<b>910</b>

**Table 2: Was the Area in Containment Zone, Sirsa?**

Response	Number	Percent
No	907	99.7
Yes	1	0.1
Blank	2	0.2
<b>Total</b>	<b>910</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Sirsa?**

Response	Number	Percent
No	29	3.2
Yes	878	96.5
Blank	3	0.3
<b>Total</b>	<b>910</b>	<b>100</b>

**Table 4: Gender Distribution, Sirsa**

Response	Number	Percent
Female	467	51.3
Male	428	47
Transgender	1	0.1
Blank	14	1.5
<b>Total</b>	<b>910</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Sirsa district**

Gender of Adult	N	Mean	Std. Deviation
Female	467	42.64	16.093
Male	426	49.18	15.802
Transgender	1	50	.
Blank	14+2	8.36	19.31
<b>Total</b>	<b>910</b>	<b>45.19</b>	<b>16.947</b>

**Table 6: Occupation Distribution, Sirsa**

Response	Number	Percent
Driver	4	0.4
Govt. Office	14	1.5
Health Care Worker	5	0.5
Migrant Labour	14	1.5
Police	1	0.1
Shop Owners/ Workers	33	3.6
Any Other	732	80.4
Blank	107	11.8
<b>Total</b>	<b>910</b>	<b>100</b>

**Table 7: Was there Any Health Problem in Last 30 Days, Sirsa**

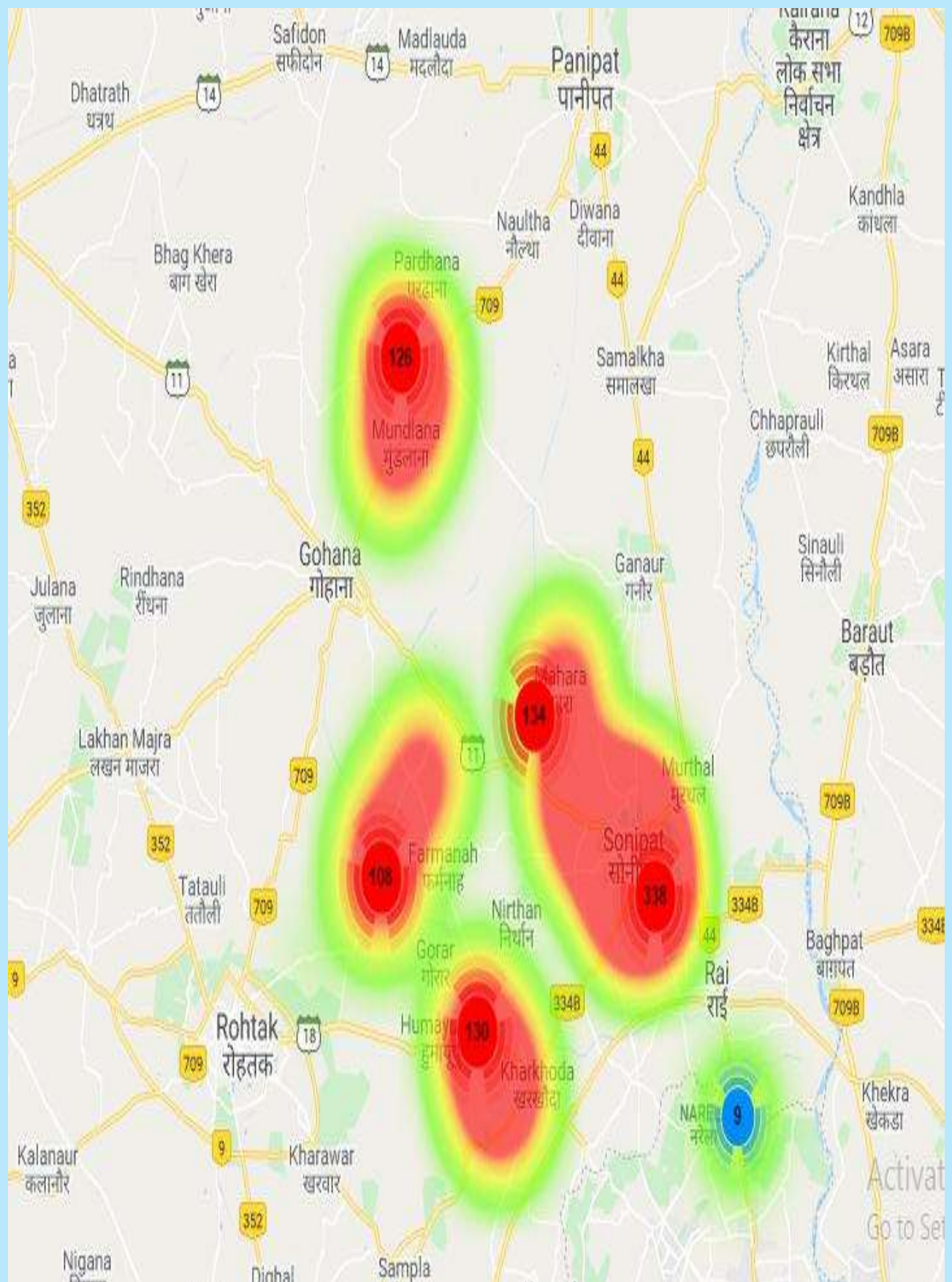
<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	784	86.2
Yes	1	0.1
Blank	125	13.7
<b>Total</b>	<b>910</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Sirsa(Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	805	88.5
["Any Other", "No Symptom"]	1	0.1
["Breathlessness", "No Symptom"]	1	0.1
["Headache"]	1	0.1
["Any Other"]	2	0.2
Blank	100	11
<b>Total</b>	<b>910</b>	<b>100</b>



## District Sonapat



**Table 1: Villages/ Area Covered in Sonapat District**

<b>Village/Ward</b>	<b>Number</b>
54	1
Adarsh Nagar	1
Anwali	6
Badhoti	41
Barwasni	46
Bashoti	1
Bhagat Singh Colony	10
Bhainswal	42
Chhanoli	44
Dhurana	42
Giwana	27
Hanuman Nag	24
Hulleri	44
Jatwara	11
Jeevan Nagar	23
Kailash Colony	18
Kalupur	13
Lal Darwaja	23
Mahra	45
Matindu	43
Mundlana	42
Patel Nagar	26
Rishi Cly	21
Sec 12	1
Sector 15	1
Shastri Colony Urbmah51	1
Sisana	44
Snpt	1
Snpt -09	27
Snpt- 05	8
Sunder Savri	8
Tara Nagar	19
UhcKalupur	66
Urbmah51	21
Urbmah52	22
Urbmah53	20
Urbmah54	23
Blank	1
<b>Total</b>	<b>857</b>

**Table 2: Was the Area in Containment Zone, Sonapat?**

Response	Number	Percent
No	754	88
Yes	100	11.7
Blank	3	0.4
<b>Total</b>	<b>857</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Sonapat?**

Response	Number	Percent
No	7	0.8
Yes	846	98.7
Blank	4	0.5
<b>Total</b>	<b>857</b>	<b>100</b>

**Table 4: Gender Distribution, Sonapat**

Response	Number	Percent
Female	422	49.2
Male	382	44.6
Blank	53	6.2
<b>Total</b>	<b>857</b>	<b>100</b>

**Table 5: Mean Age Gender-wise for Sonapat district**

Gender of Adult	N	Mean	Std. Deviation
Female	417	43.27	16.037
Male	376	48.13	19.505
Blank	53+11	0.26	9.203
<b>Total</b>	<b>857</b>	<b>42.73</b>	<b>20.661</b>

**Table 6: Occupation Distribution, Sonapat**

Response	Number	Percent
Driver	7	0.8
Govt. Office	8	0.9
Health Care Worker	18	2.1
Migrant Labour	4	0.5
Police	2	0.2
Shop Owners/ Workers	21	2.5
Any Other	737	86
Blank	60	7
<b>Total</b>	<b>857</b>	<b>100</b>



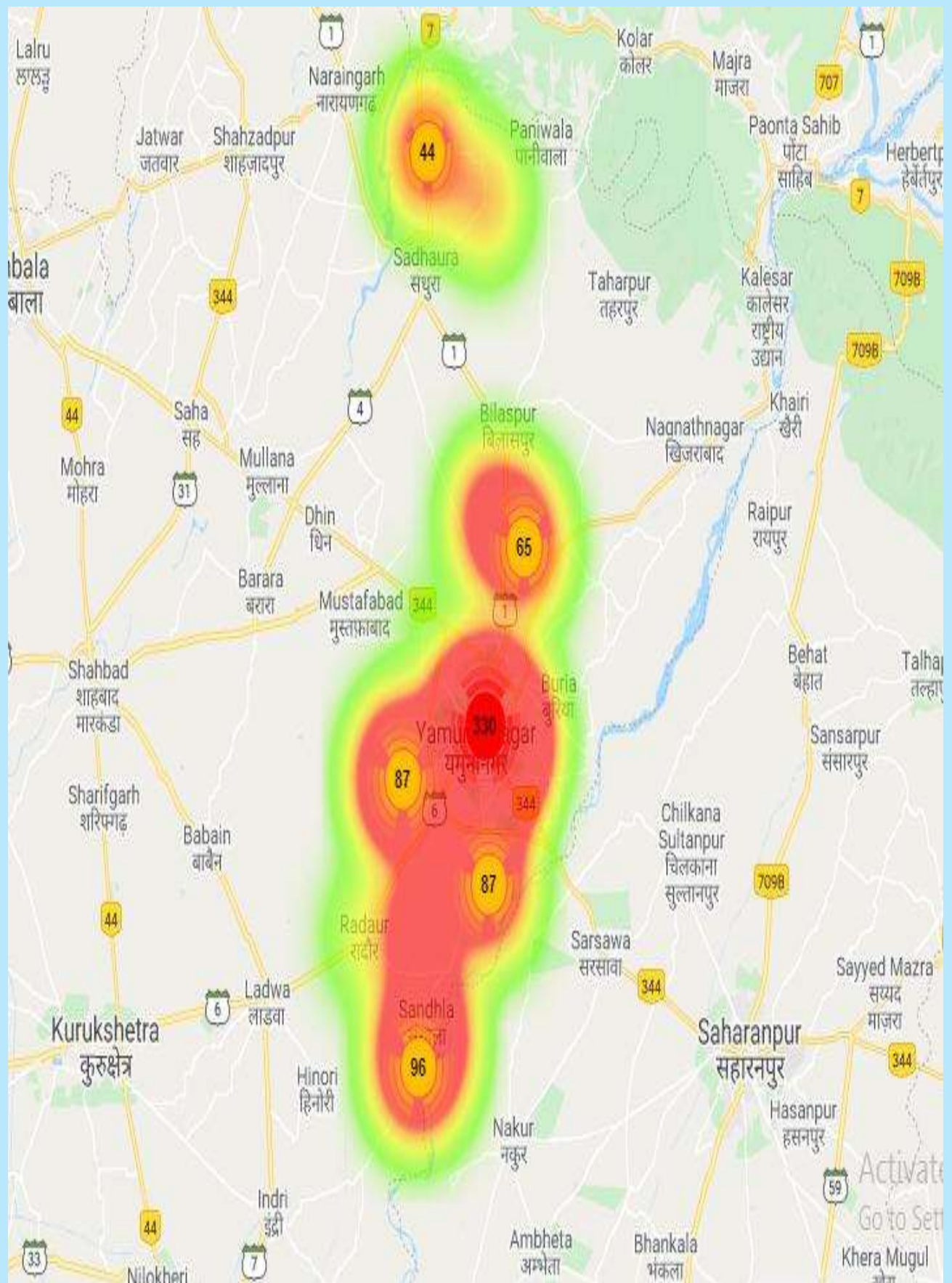
**Table 7: Was there Any Health Problem in Last 30 Days, Sonapat**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
Blank	67	7.8
No	786	91.7
Yes	4	0.5
<b>Total</b>	<b>857</b>	<b>100</b>

**Table 8: Did you Get any of the Following Symptoms in Last 30 Days, Sonapat (Multiple response)**

<b>Symptoms</b>	<b>Number</b>	<b>Percent</b>
["No Symptom"]	773	90.2
["Body Ache"]	1	0.1
["Cough", "Running Nose", "Sore Throat"]	1	0.1
["Headache", "No Symptom"]	1	0.1
["Running Nose"]	1	0.1
["Any Other"]	6	0.7
Blank	74	8.7
<b>Total</b>	<b>857</b>	<b>100</b>

## District Yamunanagar



**Table 1: Villages/ Area Covered in Yamunanagar District**

<b>Village/Ward</b>	<b>Number</b>
Alahar	44
Arnauli	56
Daulatpur	43
Gandhi Nagar	91
Gumthala	49
Hafizpur	44
Mirzapur	44
Munda Majra	60
Naharpur	44
Rasulpur	43
Ratauli	43
Salempur	30
SalempurBangar	14
Sandhala	40
Sarojini	87
Taranwala	42
Wand -13	67
Ward No	1
Ward No 11	33
Ward No 14	16
Ward No 15	1
Blank	44
<b>Total</b>	<b>936</b>

**Table 2: Was the Area in Containment Zone, Yamunanagar?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	847	90.5
Yes	46	4.9
Blank	43	4.6
<b>Total</b>	<b>936</b>	<b>100</b>

**Table 3: Did the Family Give Consent for the Survey, Yamunanagar?**

<b>Response</b>	<b>Number</b>	<b>Percent</b>
No	17	1.8
Yes	871	93.1
Blank	48	5.1
<b>Total</b>	<b>936</b>	<b>100</b>

**Table 4: Gender Distribution, Yamunanagar**

Response	Number	Percent
Female	547	58.4
Male	331	35.4
Transgender	2	0.2
Blank	56	6
<b>Total</b>	<b>936</b>	<b>100</b>

**Table 5: Occupation Distribution, Yamunanagar**

Response	Number	Percent
Driver	2	0.2
Govt. Office	7	0.7
Health Care Worker	14	1.5
Migrant Labour	10	1.1
Police	2	0.2
Shop Owners/ Workers	36	3.8
Any Other	789	84.3
Blank	76	8.1
<b>Total</b>	<b>936</b>	<b>100</b>

**Table 6: Was there Any Health Problem in Last 30 Days, Yamunanagar**

Response	Number	Percent
No	873	93.3
Yes	1	0.1
Blank	62	6.6
<b>Total</b>	<b>936</b>	<b>100</b>

**Table 7: Did you Get any of the Following Symptoms in Last 30 Days, Yamunanagar (Multiple response)**

Symptoms	Number	Percent
	49	5.2
["No Symptom "]	786	84
["Any Other"]	2	0.2
Blank	99	10.6
<b>Total</b>	<b>936</b>	<b>100</b>

## Sero Testing Results

Total of **18905** blood samples were tested in all 22 districts. (Table B1)

<b>Table B1: District-wise Blood Samples Tested</b>	
<b>District</b>	<b>Frequency</b>
Ambala	841
Bhiwani	836
Charkhi Dadri	878
Faridabad	823
Fatehabad	860
Gurugram	844
Hisar	856
Jhajjar	848
Jind	869
Kaithal	831
Karnal	855
Kurukshetra	876
Mahendragarh	821
Nuh	888
Palwal	908
Panchkula	873
Panipat	886
Rewari	852
Rohtak	874
Sirsa	901
Sonepat	867
Yamunanagar	818
<b>Total</b>	<b>18905</b>

**Overall seropositivity in the state was 8%. (Table B2)**

**Table B2: Overall Seropositivity at State Level**

Test Results	Frequency	Percent
Negative	17335	91.7
Positive	1504	8.0
indeterminate	19	0.1
sample rejected	5	0.0
Report Blank	42	0.2
<b>Total</b>	<b>18905</b>	<b>100%</b>

District wise seropositivity is shown in Table B3, Figure B1.

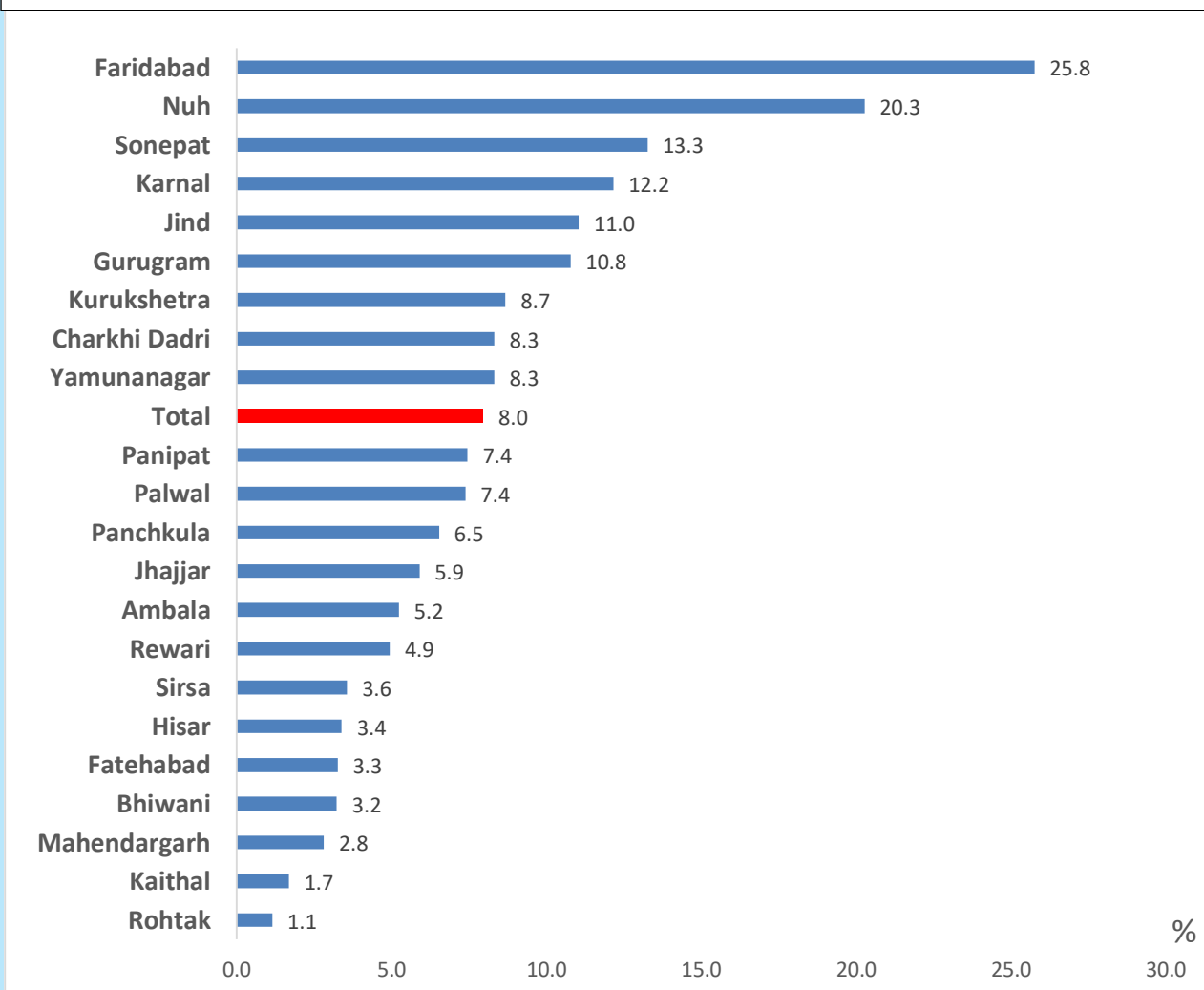
**Table B3: District wise Seropositivity Rate in Haryana, August 2020**

			Negative	Positive	indeterminate	Sample rejected	Total
Dist	Ambala	N	787	44	0	0	841
		%	93.6%	5.2%			100%
	Bhiwani	N	809	27	0	0	`
		%	96.8%	3.2%			100%
	Charkhi Dadri	N	805	73	0	0	878
		%	91.69%	8.31%			100%
	Faridabad	N	611	212	0	0	823
		%	74.2%	25.8%			100%
	Fatehabad	N	826	28	2	4	860
		%	96.05%	3.26%	0.23%	0.47%	100%
	Gurugram	N	733	91	17	0	844
		%	86.8%	10.8%	2		100%
	Hisar	N	817	29	0	0	856
		%	95.4%	3.4%			100%
	Jhajjar	N	797	50	0	1	848
		%	94	5.9%		0.1%	100%
	Jind	N	769	96	0	0	869
		%	88.5%	11			100%
	Kaithal	N	814	14	0	0	831
		%	98	1.7%			100%
	Karnal	N	750	104	0	0	855
		%	87.7%	12.2%			100%
	Kurukshetra	N	799	76	0	0	876
		%	91.2%	8.7%			100%
	Mahendragarh	N	798	23	0	0	821
		%	97.2%	2.8%			100%
	Nuh	N	703	180	0	0	888
		%	79.2%	20.3%			100%
	Palwal	N	837	67	0	0	908
		%	92.2%	7.4%			100%
	Panchkula	N	816	57	0	0	873



		%	93	6.52%			100%
	Panipat	N	819	66	0	0	886
		%	92.4%	7.4%			100%
	Rewari	N	809	42	0	0	852
		%	95	4.9%			100%
	Rohtak	N	864	10	0	0	874
		%	98.86%	1.14%			100%
	Sirsa	N	869	32	0	0	901
		%	96.4%	3.6%			100%
	Sonepat	N	752	115	0	0	867
		%	86.7%	13.3%			100%
	Yamunanagar	N	750	68	0	0	818
		%	91.7%	8.3%			100%
<b>Total</b>	<b>N</b>		<b>17335</b>	<b>1504</b>	<b>19</b>	<b>5</b>	<b>18905</b>
	<b>%</b>		<b>91.5%</b>	<b>8.1%</b>	<b>0.1%</b>		<b>100%</b>

Figure B1: Percent Seropositivity, antiSARS2 Antibodies, ELISA method, District-wise, Haryana, August 2020



Sero positivity as per Rural and Urban areas is shown in Table B4. Overall it is 6.9% in rural areas and 9.59% in urban areas. Rural Faridabad had very high positivity of 22% followed by Nuh 13.9%. Urban Faridabad and Nuh has positivity above 30%.

Table B4: District-wise Seropositivity in Rural and Urban Areas, Haryana, August 2020

District		Rural Areas					Urban Areas				
		Negative	Positive	SAMPLE REJECTED	Indeterminate	Total	Negative	Positive	SAMPLE REJECTED	Indeterminate	Total
Ambala	N	557	26	0	0	587	230	18	0	0	254
	%	94.9%	4.4%			100%	90.6%	7.1%			100%
Bhiwani	N	470	19	0	0	489	339	8	0	0	347
	%	96.1%	3.9%			100%	97.7%	2.3%			100%
Charkhi Dadri	N	476	49	0	0	525	329	24	0	0	353
	%	90.67%	9.33%			100%	93.2%	6.8%			100%
Faridabad	N	383	109	0	0	492	228	103	0	0	331
	%	77.8%	22.2%			100%	68.9%	31.1%			100%
Fatehabad	N	489	15	3	0	507	337	13	1	2	353
	%	96.45%	2.96%	0.59 %		100%	95.47%	3.68%	0.28 %	0.57 %	100%
Gurugram	N	468	29	0	9	508	265	62	0	8	336
	%	92.1%	5.7%		1.8%	100%	78.9%	18.5%		2.4%	100%
Hisar	N	479	21	0	0	507	338	8	0	0	349
	%	94.5%	4.1%			100%	96.8%	2.3%			100%
Jhajjar	N	507	14	1	0	522	290	36	0	0	326
	%	97.1%	2.7%	0.2%	0	100%	89	11			100%
Jind	N	470	67	0	0	537	299	29	0	0	332
	%	87.5%	12.5%			100%	90.1%	8.7%			100%
Kaithal	N	482	7	0	0	491	332	7	0	0	340
	%	98.2%	1.4%			100%	97.6%	2.1%			100%
Karnal	N	478	46	0	0	525	272	58	0	0	330
	%	91	8.8%			100%	82.4%	17.6%			100%
Kurukshetra	N	471	49	0	0	520	328	27	0	0	356
	%	90.6%	9.4%			100%	92.1%	7.6%			100%

Mahendragarh	N	483	9	0	0	492	315	14	0	0	329
	%	98.2%	1.8%			100%	95.7%	4.3%			100%
Nuh	N	461	75	0	0	541	242	105	0	0	347
	%	85.2%	13.9%			100%	69.7%	30.3%			100%
Palwal	N	523	31	0	0	555	314	36	0	0	353
	%	94.2%	5.6%			100%	89	10.2%			100%
Panchkula	N	474	44	0	0	518	339	13	0	0	352
	%	92%	8.49%			100%	96.31%	3.69%			100%
Panipat	N	490	38	0	0	529	329	28	0	0	357
	%	92.6%	7.2%			100%	92.2%	7.8%			100%
Rewari	N	515	15	0	0	531	294	27	0	0	321
	%	97	2.8%			100%	91.6%	8.4%			100%
Rohtak	N	518	3	0	0	521	346	7	0	0	353
	%	99.42%	0.58%			100%	98.02%	1.98%			100%
Sirsa	N	507	22	0	0	529	362	10	0	0	372
	%	95.8%	4.2%			100%	97.3%	2.7%			100%
Sonapat	N	461	51	0	0	512	291	64	0	0	355
	%	90	10			100%	82	18			100%
Yamunanagar	N	445	49	0	0	494	305	19	0	0	324
	%	90.1%	9.9%			100%	94.1%	5.9%			100%
Total	N	10607	788	4	9	11432	6724	716	1	10	7470
	%	92.8	6.9	0.0	0.1	100.0	90.01	9.59	0.0 1	0.13	100%

District-wise and gender-wise seropositivity is shown in table B5. Overall seropositivity was 7.8% amongst females and 8% among males. Prevalence was among females in district Bhiwani, Gurugram, Jhajjar, and Mohindergarh. Whereas, it was higher among males in district Hisar, Jind, Kurukshetra, Nuh, Panipat, and Yamunanagar.

**Table B5: District-wise Seropositivity in Rural and Urban Areas, Haryana, August 2020**

		Females			Males			Transgender		
		Negative	Positive	Total	Negative	Positive	Total	Negative	Positive	Total
Ambala	N	406	23	430	379	21	403	1	0	1
	%	94.40%	5.30%	100.00%	94.00%	5.20%	100.00%	100.00%	0.00%	100.00%
Bhiwani	N	344	15	359	463	12	475	2	0	2
	%	95.80%	4.20%	100.00%	97.50%	2.50%	100.00%	100.00%	0.00%	100.00%
Charkhi Dadri	N	345	29	374	460	44	504	1	0	1
	%	92.25%	7.75%	100.00%	91.27%	8.73%	100.00%	100.00%	0.00%	100.00%
Faridabad	N	340	121	461	270	91	361	1	0	2
	%	73.80%	26.20%	100.00%	74.80%	25.20%	100.00%	50.00%	0.00%	100.00%
Fatehabad	N	321	13	361	505	15	525	2	0	2
	%	88.92%	3.60%	100.00%	96.19%	2.86%	100.00%	100.00%	0.00%	100.00%
Gurugram	N	384	63	455	348	28	384	2	0	2
	%	84.40%	13.80%	100.00%	90.60%	7.30%	100.00%	100.00%	0.00%	100.00%
Hisar	N	460	8	474	357	21	379	2	0	2
	%	97.00%	1.70%	100.00%	94.20%	5.50%	100.00%	100.00%	0.00%	100.00%
Jhajjar	N	331	26	357	465	24	490	1	1	2
	%	92.70%	7.30%	100.00%	94.90%	4.90%	100.00%	50.00%	50.00%	100.00%
Jind	N	346	36	384	419	60	480	1	0	1

	%	90.10%	9.40%	100.00%	87.30%	12.50%	100.00%	100.00%	0.00%	100.00%
Kaithal	N	353	5	359	459	9	469	2	0	2
	%	98.30%	1.40%	100.00%	97.90%	1.90%	100.00%	100.00%	0.00%	100.00%
Karnal	N	361	51	413	386	53	439	1	0	1
	%	87.40%	12.30%	100.00%	87.90%	12.10%	100.00%	100.00%	0.00%	100.00%
Kurukshetra	N	502	41	544	296	35	331	1	0	1
	%	92.30%	7.50%	100.00%	89.40%	10.60%	100.00%	100.00%	0.00%	100.00%
Mahendragarh	N	426	16	442	369	7	376			
	%	96.40%	3.60%	100.00%	98.10%	1.90%	100.00%			
Nuh	N	327	76	404	375	103	482			
	%	80.90%	18.80%	100.00%	77.80%	21.40%	100.00%			
Palwal	N	434	32	469	402	35	437			
	%	92.50%	6.80%	100.00%	91.99%	8.01%	100%			
Panchkula	N	477	34	511	339	23	362			
	%	93.35%	6.65%	100.00%	93.65%	6.35%	100.00%			
Panipat	N	478	28	507	338	38	376			
	%	94.30%	5.50%	100.00%	89.90%	10.10%	100.00%			
Rewari	N	343	15	358	465	27	493			
	%	95.80%	4.20%	100.00%	94.30%	5.50%	100.00%			
Rohtak	N	498	4	502	366	6	372			
	%	99.20%	0.80%	100.00%	98.39%	1.61%	100.00%			

Sonepat	N	381	64	445	370	51	421			
	%	85.60%	14.40%	100.00%	87.90%	12.10%	100.00%			
Sirsa	N	446	16	462	423	16	439			
	%	96.54%	3.46%	100.00%	96.36%	3.64%	100.00%			
Yamunanagar	N	469	37	506	281	31	312			
	%	92.70%	7.30%	100.00%	90.10%	9.90%	100.00%			
Total	N	8772	753	9577	8535	750	9310	17	1	19
	%	91.59%	7.86%	100.00%	91.68%	8.06%	100.00%	89.50%	5.30%	100.00%

Table B6: District-wise and Cluster-wise Sero positivity in all 22 Districts of Haryana

Ambala	Negative	Positive	Total
AMB01	36	2	38
AMB02	42	2	44
AMB03	114	6	120
AMB04	44	0	45
AMB05	39	5	44
AMB06	39	3	42
AMB07	43	0	44
AMB08	37	0	39
AMB09	43	3	46
AMB10	42	0	42
AMB11	45	3	48
AMB12	33	2	35
AMB13	77	4	83
AMB14	74	7	84
AMB15	1	0	1
AMB16	78	7	86
Total	787	44	841

Bhiwani	Negative	Positive	Total
BWN01	40	3	43
BWN02	35	3	38
BWN03	39	3	42
BWN04	40	1	41
BWN05	41	1	42
BWN06	42	0	42
BWN07	38	2	40
BWN08	41	2	43
BWN09	37	1	38
BWN10	40	0	40
BWN11	40	0	40
BWN12	37	3	40
BWN13	88	1	89
BWN14	88	3	91
BWN15	82	3	85
BWN16	81	1	82
Total	809	27	836



CharkhiDadri	Negative	Positive	Total
CKDDR01	42	1	43
CKDDR02	40	2	42
CKDDR03	40	4	44
CKDDR04	41	3	44
CKDDR05	42	2	44
CKDDR06	41	3	44
CKDDR07	34	10	44
CKDDR08	36	8	44
CKDDR09	42	2	44
CKDDR10	42	2	44
CKDDR11	40	4	44
CKDDR12	36	8	44
CKDDR13	84	4	88
CKDDR14	85	3	88
CKDDR15	77	11	88
CKDDR16	83	6	89
Total	805	73	879

Faridabad	Negative	Positive	Total
FBD01	43	8	51
FBD02	28	8	36
FBD03	36	5	41
FBD04	36	3	39
FBD05	22	9	31
FBD06	31	11	42
FBD07	33	9	42
FBD08	27	19	46
FBD09	30	10	40
FBD10	32	8	40
FBD11	31	10	41
FBD12	34	9	43
FBD13	59	21	80
FBD14	38	47	85
FBD15	71	15	86
FBD16	60	20	80
Total	611	212	823

Fatehabad	Negative	Positive	Total
FTB01	41	1	42
FTB02	41	1	42
FTB03	40	2	42
FTB04	41	1	42
FTB05	42	0	42
FTB06	42	0	42
FTB07	41	1	42
FTB08	42	1	43
FTB09	42	0	42
FTB10	37	5	42
FTB11	36	3	42
FTB12	44	0	44
FTB13	84	3	88
FTB14	81	6	88
FTB15	88	1	89
FTB16	84	3	88
Total	826	28	860

Gurugram	Negative	Positive	Total
GRM01	47	2	50
GRM02	33	8	41
GRM03	34	1	36
GRM04	40	4	44
GRM05	39	1	42
GRM06	38	3	42
GRM07	43	1	44
GRM08	42	2	45
GRM09	43	1	44
GRM10	33	5	39
GRM11	38	1	41
GRM12	38	0	40
GRM13	67	12	81
GRM14	58	24	87
GRM15	60	20	82
GRM16	80	6	86
Total	733	91	844

Hisar	Negative	Positive	Total
HSR01	39	2	43
HSR02	42	0	42
HSR03	42	0	45
HSR04	44	0	44
HSR05	39	4	43
HSR06	39	2	42
HSR07	34	0	34
HSR08	45	0	45
HSR09	36	5	41
HSR10	39	1	41
HSR11	38	6	44
HSR12	42	1	43
HSR13	82	2	84
HSR14	88	0	88
HSR15	78	5	86
HSR16	90	1	91
Total	817	29	856

Jhajjar	Negative	Positive	Total
JJR01	44	1	45
JJR02	44	0	44
JJR03	43	2	45
JJR04	35	2	37
JJR05	43	1	44
JJR06	43	1	44
JJR07	43	0	43
JJR08	44	0	44
JJR09	40	4	45
JJR10	43	1	44
JJR11	44	0	44
JJR12	41	2	43
JJR13	78	6	84
JJR14	66	10	76
JJR15	74	9	83
JJR16	72	11	83
Total	797	50	848

Jind	Negative	Positive	Total
JND01	46	12	58
JND02	38	5	43
JND03	39	3	42
JND04	41	3	44
JND05	35	8	43
JND06	34	9	43
JND07	39	5	44
JND08	40	4	44
JND09	30	12	42
JND10	43	1	44
JND11	44	1	45
JND12	41	4	45
JND13	70	5	76
JND14	74	5	81
JND15	71	16	88
JND16	84	3	87
Total	769	96	869

Kaithal	Negative	Positive	Total
KTL01	40	1	42
KTL02	39	0	39
KTL03	39	0	39
KTL04	41	0	41
KTL05	47	1	48
KTL06	41	0	42
KTL07	43	0	43
KTL08	39	2	41
KTL09	36	1	37
KTL10	39	1	40
KTL11	41	1	42
KTL12	37	0	37
KTL13	84	2	86
KTL14	84	2	86
KTL15	74	3	77
KTL16	90	0	91
Total	814	14	831

Karnal	Negative	Positive	Total
KNL01	41	14	56
KNL02	41	3	44
KNL03	36	5	41
KNL04	42	1	43
KNL05	43	0	43
KNL06	41	5	46
KNL07	33	9	42
KNL08	40	0	40
KNL09	40	4	44
KNL10	39	1	40
KNL11	44	2	46
KNL12	38	2	40
KNL13	71	12	83
KNL14	65	16	81
KNL15	63	23	86
KNL16	73	7	80
Total	750	104	855

Kurukshetra	Negative	Positive	Total
KKR01	46	1	47
KKR02	42	1	43
KKR03	31	13	44
KKR04	39	3	42
KKR05	41	1	42
KKR06	37	8	45
KKR07	43	3	46
KKR08	31	6	37
KKR09	45	0	45
KKR10	35	7	42
KKR11	38	3	41
KKR12	43	3	46
KKR13	85	3	89
KKR14	77	12	89
KKR15	78	11	89
KKR16	88	1	89
Total	799	76	876

Mohindergarh	Negative	Positive	Total
MHN01	48	0	48
MHN02	34	0	34
MHN03	42	0	42
MHN04	43	0	43
MHN05	41	0	41
MHN06	43	0	43
MHN07	39	0	39
MHN08	40	4	44
MHN09	37	2	39
MHN10	42	0	42
MHN11	36	0	36
MHN12	38	3	41
MHN13	81	0	81
MHN14	81	3	84
MHN15	70	9	79
MHN16	83	2	85
Total	798	23	821

Nuh	Negative	Positive	Total
NH01	42	5	48
NH02	34	8	43
NH03	44	3	47
NH04	36	8	44
NH05	44	3	50
NH06	36	3	39
NH07	39	3	42
NH08	32	8	40
NH09	45	0	45
NH10	35	9	44
NH11	43	2	45
NH12	31	23	54
NH13	54	28	82
NH14	67	21	88
NH15	54	36	90
NH16	67	20	87
Total	703	180	888

Palwal	Negative	Positive	Total
PWL01	43	5	48
PWL02	39	2	41
PWL03	32	0	32
PWL04	38	3	42
PWL05	69	9	78
PWL06	41	0	41
PWL07	42	2	44
PWL08	41	0	41
PWL09	39	0	39
PWL10	36	0	36
PWL11	62	10	72
PWL12	41	0	41
PWL13	71	4	76
PWL14	83	8	92
PWL15	89	20	109
PWL16	71	4	76
Total	837	67	908

Panchkula	Negative	Positive	Total
PKL-01	42	2	44
PKL-02	39	3	42
PKL-03	41	3	44
PKL-04	42	2	44
PKL-05	32	12	44
PKL-06	27	15	42
PKL-07	41	2	43
PKL-08	43	1	44
PKL-09	43	1	44
PKL-10	42	0	42
PKL-11	44	0	44
PKL-12	41	3	44
PKL-13	84	4	88
PKL-14	85	3	88
PKL-15	84	4	88
PKL-16	86	2	88
Total	816	57	873

Panipat	Negative	Positive	Total
PNT01	50	6	57
PNT02	42	3	45
PNT03	41	1	42
PNT04	43	1	44
PNT05	39	4	43
PNT06	42	1	43
PNT07	30	6	36
PNT08	45	0	45
PNT09	41	3	44
PNT10	33	9	42
PNT11	42	1	43
PNT12	42	3	45
PNT13	73	4	77
PNT14	72	2	74
PNT15	65	9	74
PNT16	119	13	132
Total	819	66	886

Rewari	Negative	Positive	Total
RWR01	45	4	49
RWR02	40	3	43
RWR03	44	0	44
RWR04	46	1	47
RWR05	39	3	42
RWR06	43	0	43
RWR07	45	0	45
RWR08	42	1	43
RWR09	42	1	43
RWR10	44	0	44
RWR11	45	0	45
RWR12	40	2	43
RWR13	83	11	94
RWR14	79	7	86
RWR15	61	6	67
RWR16	71	3	74
Total	809	42	852

Rohtak	Negative	Positive	Total
RTK01	44	0	44
RTK02	44	0	44
RTK03	44	0	44
RTK04	44	0	44
RTK05	42	2	44
RTK06	45	0	45
RTK07	44	0	44
RTK08	44	0	44
RTK09	43	1	44
RTK10	44	0	44
RTK11	36	0	36
RTK12	44	0	44
RTK13	88	1	89
RTK14	87	3	90
RTK15	84	2	86
RTK16	87	1	88
Total	864	10	874

Sirsa	Negative	Positive	Total
SRS01	43	2	45
SRS02	44	0	44
SRS03	44	0	44
SRS04	44	0	44
SRS05	40	4	44
SRS06	44	0	44
SRS07	41	3	44
SRS08	44	0	44
SRS09	40	4	44
SRS10	40	4	44
SRS11	42	2	44
SRS12	41	3	44
SRS13	85	3	88
SRS14	85	3	88
SRS15	92	4	96
SRS16	100	0	100
Total	869	32	901

Sonepat	Negative	Positive	Total
SNPT01	38	5	43
SNPT02	36	4	40
SNPT03	40	2	42
SNPT04	36	8	44
SNPT05	38	3	41
SNPT06	38	3	41
SNPT07	39	4	43
SNPT08	39	6	45
SNPT09	32	10	42
SNPT10	41	3	44
SNPT11	41	1	42
SNPT12	43	2	45
SNPT13	74	15	89
SNPT14	76	8	84
SNPT15	57	36	93
SNPT16	84	5	89
Total	752	115	867

Yamunanagar	Negative	Positive	Total
YNR01	19	12	31
YNR02	42	1	43
YNR03	42	1	43
YNR04	42	3	45
YNR05	37	2	39
YNR06	40	5	45
YNR07	39	1	40
YNR08	38	4	42
YNR09	37	2	39
YNR10	29	14	43
YNR11	39	0	39
YNR12	41	4	45
YNR13	85	3	88
YNR14	69	2	71
YNR15	76	6	82
YNR16	75	8	83
Total	750	68	818

# MEDIA GALLERY

## FIELD ACTIVITIES OF SERO SURVEY IN DISTRICTS OF HARYANA



*UPHC Durga Nagar (AMB 14)*



*Sandwa (BWN 01)*



*Santokhpura (CKDDR 02)*



*Punherakhurd (FBD 03)*





**Jandli Kalan (FTB 06)**



**UPHC Khandsa (GRM 14)**



**Agroha (HSR 02)**



**Subana (JJR 05)**





**Apollo Road Jind (JND 14)**



**Neemwala (KTL 08)**



**Sector-5 (KKR 18)**



**Banana (PNT 05)**



**Lakhanmajra (RTK 04)**



**Koharwala (SRS 01)**



**Barwasni (SNPT 08)**



**UPHC Old Hamida (YNR 15)**



#### VEHICLES USED FOR SERO SURVEY LOGISTICS FOR THE FILED ACTIVITIES



#### ACTIVITIES OF SERO SURVEY IN ADVERSE CONDITIONS



## SAMPLES LABLING AND STORAGE





## ELISA (SERO) TESTING LAB IN THE DISTRICTS



Lab in Sirsa



Lab in Jind



Lab in Ambala



Lab in Sonapat

## SUPERVISION BY STATE IDSP SUPERVISOR



*Dr Krishan Kumar Deputy Director (IDSP) in District Palwal and Faridabad*



*Dr Suresh Bhonsle SNO (IDSP)  
Supervision in Kaithal*

*Dr Pankaj Shourie DS (IDSP)  
Supervision in Yamunanagar*





*Dr Jaideep PHM (IDSP) in District Sirsa and Fatehabad*

**SUPERVISION BY RRT MEMBERS IN DISTRICTS**



*Dr. Anisha Aggarwal Assistant Prof.  
Community Medicine*



*Dr. Neelam Professor  
Community Medicine*



**Dr Meenakshi Prof.**  
**Community Medicine**



**Dr. Pooja Goyal Assistance Prof.**  
**Community Medicine**



**Dr Shubham Assistant Prof.**  
**Community Medicine**



**Dr Arun Associate Prof.**  
**Community Medicine**





**Dr. Vinod Chayal Ass Prof  
Community Medicine**



**Dr Rajesh Garg Ass Prof.  
Community Medicine**



**Dr. Meena Professor,  
Community Medicine**



**Dr Narottam Assistant Prof.  
Community Medicine**



*Dr Gulshan Garg Associate Prof.  
Community Medicine*



*Dr.SK Jha Associate Professor PS  
Community Medicine*



*Dr Anu Bhardwaj, Professor  
Community Medicine*



*Dr Ashok Kumar  
Associate Prof.& HoD ENT*





## INTEGRATED DISEASE SURVEILLANCE PROGRAMME, HEALTH DEPARTMENT, HARYANA



HEALTH DEPARTMENT, HARYANA