



Ministry of Health & Family Welfare  
Government of India



National Training of Trainers for

**COVID-19**

6 March 2020 | New Delhi

# Information Management in the context of COVID-19



# Rational for Data and Information *for COVID-19 preparedness and response*

- For tracking of cases and contacts and to provide care and treatment
- For rapid detection of new cases where the SARS-CoV-2 is not circulating;
- To provide epidemiological information to conduct risk assessments at all levels; and
- To provide epidemiological information to guide preparedness and response measures at all levels.



# Types of Data and Information

*needed for COVID-19 preparedness and response*

- List and details of cases and contacts
- Location and details of health facilities
- Location and details of laboratories
- List of health workforce (all cadre)
- List of contacts of partners
  
- List of information products (line lists, situation reports)
- Data dictionary with metadata
- Up-to-date case definitions



# Characters of Data and Information

*needed for COVID-19 preparedness and response*

## Essential attributes

- Timely
- Accurate
- Reliable
- Complete
- Private
- Confidential
- Secure





सत्यमेव जयते  
Ministry of Health & Family Welfare  
Government of India



# Special Surveillance Information System

*for managing COVID-19*

**National web-enabled information platform**



# Special Surveillance Information System

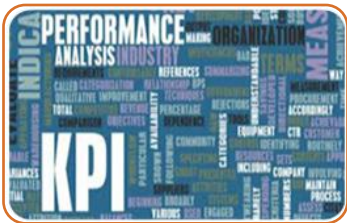
*for managing COVID-19*



To have near to real time Single Integrated Portal to access information on 2019 nCoVs (a single source of truth) data



**Bird-eye-visualization** to support data based Decision making



**National-level monitoring and Status of implementation, To provide better care in terms of availability of equipments and Preparedness Healthcare**

# Special Surveillance Information System

*for managing COVID-19*

**URL:** <http://ncdc.nhp.gov.in/>

**Login Credentials will be shared separately**

The Application mainly build for two level users:

Data entry and dashboard at State level

*(all data entry officers will be provided with credentials of this application for making entries)*

Dashboard for data viewing at both State and National Level



# Special Surveillance Information System

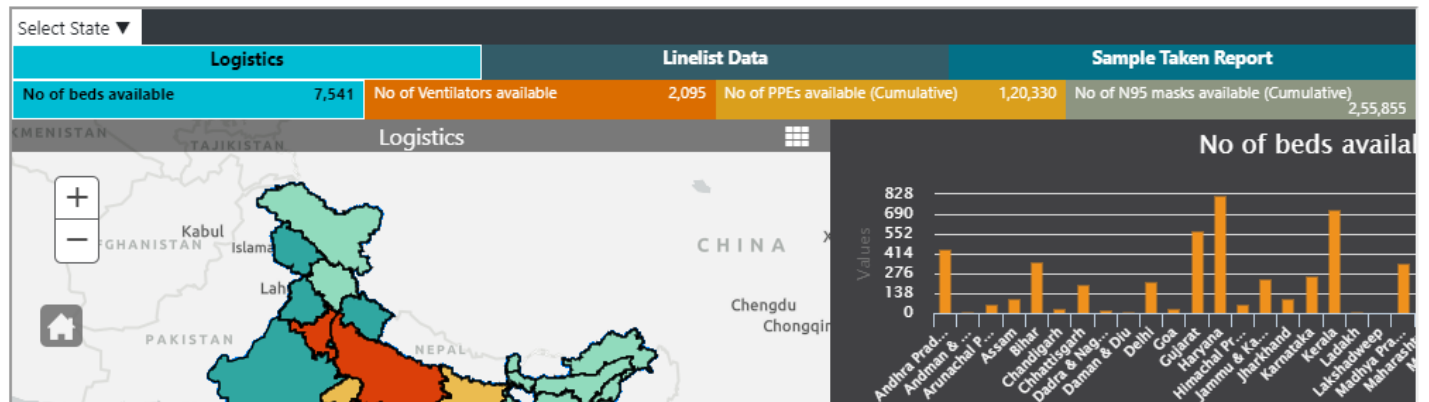
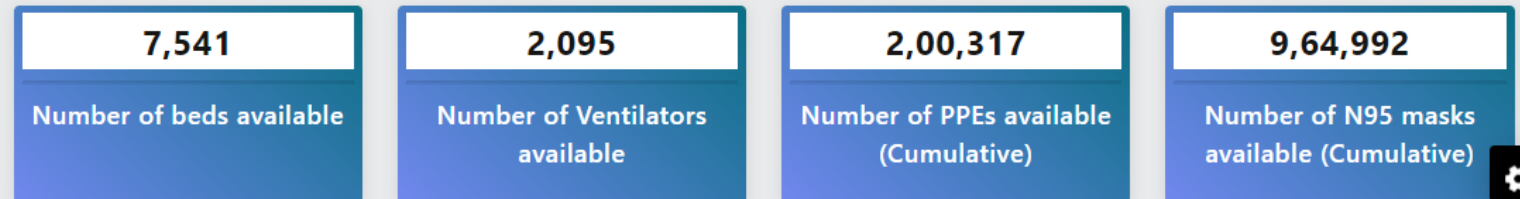
for managing COVID-19

National Level User's Dashboard: Logistics

- Dashboard
- Admin
- Main Navigation
  - Dashboard (Logistics)
  - Dashboard (Linelist Data)
  - Daily Report of Sample Taken
  - Majority of community surveillance
- Report
  - Surveillance Report
  - Date of leaving China
  - Date of Arrival from Affected Country
- User Log Report
- Chart Visualization

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

## Dashboard (National Level Logistics Data)



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# Special Surveillance Information System

*for managing COVID-19* National Level User's Dashboard: Line listing of Passengers

**Dashboard (National Level Linelist Data)**

<b>140</b> New passengers enrolled for observation Today	<b>24946</b> Total Passengers Under Surveillance (Cumulative)	<b>1121</b> Total Number of passengers found symptomatic (Cumulative)	<b>417</b> Number of passengers Hospitalized (Cumulative)
<b>225</b> Number of passengers hospitalized Today	<b>437</b> Total passengers Traveled From Wuhan after 15th January 2020	<b>15396</b> No. of passengers completed observation period	<b>216</b> No. of passengers Migrated Out


Logistics		Linelist Data		Sample Taken Report	
No of beds available	7,541	No of Ventilators available	2,095	No of PPEs available (Cumulative)	1,20,330
				No of N95 masks available (Cumulative)	2,55,855


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# Special Surveillance Information System

*for managing COVID-19* National Level User's Dashboard: Community Surveillance




 **Dashboard**


 **Admin**

Main Navigation

-  Dashboard (Logistics)
-  Dashboard (Linelist Data)
-  Daily Report of Sample Taken
-  Majority of community surveillance

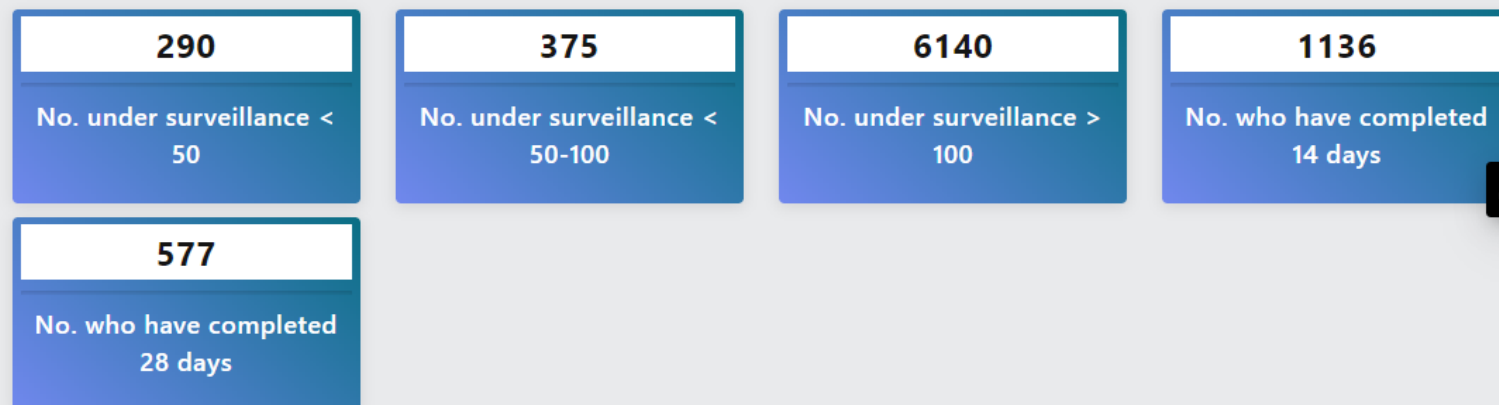
Report

-  Surveillance Report
-  User Log Report
-  Chart Visualization

 Logout

≡ SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

## National Level Data - Majority of community surveillance



 PRINT  EXPORT TO EXCEL

## State Level Data - Majority of community surveillance

S.No.	State	No. under surveillance			No. who have completed 14 days	No. who have completed 28 days
		< 50	50-100	> 100		


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# Special Surveillance Information System

for managing COVID-19

National Level User's Dashboard:  
Surveillance Report (Date of Arrival from Affected Country)

 **Dashboard**

 **Admin**

**Main Navigation**

- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Majority of community surveillance

**Report**

- Surveillance Report** <
- Date of leaving China
- Date of Arrival from Affected Country
- User Log Report
- Chart Visualization

☰ SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

Surveillance Report (Traceable - Reference Date of Arrival from Affected Country )

			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19
Migrated In	From China		64	179	175	231	167	226	345	457	799	532	192	798	301	94	99	133	108	163	27
	Other Country		61	177	148	225	157	217	339	437	786	510	176	776	287	68	72	105	75	116	16
Observation	Under Surveillance	Home Quarantined	44	145	121	187	117	193	290	368	677	471	128	706	236	53	70	74	29	76	4
		Hospitalized	1	10	10	1	2	2	7	9	9	4	4	10	16	2	1	2	2	4	7
	Surveillance Completed		0	0	17	0	0	0	0	0	0	0	0	1	3	0	0	0	1	0	0
Is-Hospitalized			1	11	13	1	7	3	9	9	10	4	8	11	17	2	1	2	3	3	0
Sample Collected	Positive		0	0	0	1	0	0	0	1	2	0	1	0	14	1	0	0	1	0	0
	Negative		0	1	2	2	10	2	8	11	23	6	11	14	2	5	8	7	9	7	1
	Invalid		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sample rejected		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Result																				

# Special Surveillance Information System

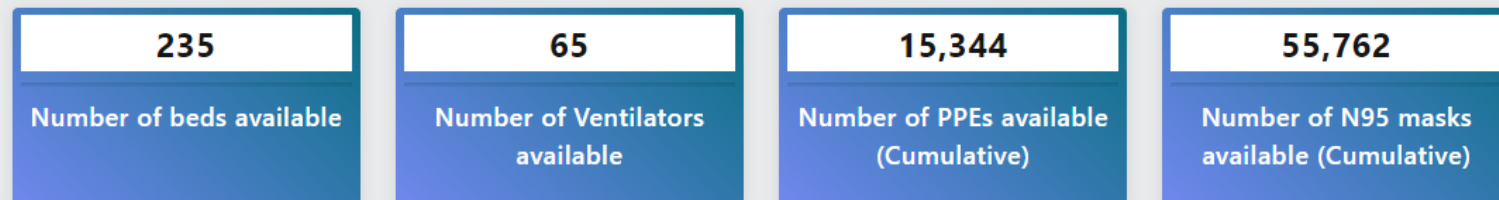
for managing COVID-19

State Level User's Dashboard

- Dashboard
- Tamil Nadu
- Dashboard
- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers
- Data Entry
- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

## Dashboard (State Level Logistics Data) : Tamil Nadu



EXPORT TO EXCEL

PRINT

## State / District Level Logistics Data

S.No.	State / District	Number of beds available in the designated isolation wards for suspected Corona virus patients	Number of Ventilators available in the designated isolation wards for suspected Corona virus patients	Number of PPEs available in the designated hospital	Number of N95 masks available in the designated hospital	Number of PPE buffer Stocks	Number of N95 masks buffer Stocks
1	State Designated Hospital	12	3	540	800	9287	48715
2	MADURAI	8	2	469	172		

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No new notifications

# Special Surveillance Information System

*for managing COVID-19*

State Level Users: Data Entry pages

## Data entry forms

State nCoV  
Passengers

State Logistics  
per Hospital

District  
Logistics per  
Hospital

State Level  
Buffer Stocks

District Level  
Buffer Stocks



# Special Surveillance Information System

for managing COVID-19

State Level User: State nCoV Passengers (line listing)

- Dashboard
- Tamil Nadu
- Dashboard
- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers
- Data Entry
- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

+ ADD  2

EXPORT TO EXCEL PRINT

## State wise linelist nCoV Passengers

Total no of Passengers listed: 3121

S.No.	Action	District	Name	Age	Sex	Address
1		NAGAPATTINAM		0	Male	
2		KANCHIPURAM		37	Male	
3		KANNIYAKUMARI		10	Female	
4		KANNIYAKUMARI		40	Female	
5		KANNIYAKUMARI		14	Male	
6		KANNIYAKUMARI		37	Male	

# Special Surveillance Information System

for managing COVID-19

State Level User: State Line list Dashboard

- Dashboard
- Tamil Nadu
- Dashboard
- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers
- Data Entry
- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks
- District Level Buffer Stocks
- Migrations
- Logout

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

## Dashboard (State Level Linelist Data) : Tamil Nadu

<b>0</b> New passengers enrolled for observation Today	<b>2958</b> Total Passengers Under Surveillance (Cumulative)	<b>32</b> Total Number of passengers found symptomatic (Cumulative)	<b>4</b> Number of passengers Hospitalized (Cumulative)
<b>3</b> Number of passengers hospitalized Today	<b>83</b> Total passengers Traveled From Wuhan after 15th January 2020	<b>1612</b> No. of passengers completed observation period	<b>64</b> No. of passengers Migrated Out

PRINT EXPORT TO EXCEL

## Cumulative Linelist Data Report (District-wise nCoV Passengers)

S.No.	District Name	Last Updated On	New passengers enrolled for observation	Cumulative Under Surveillance (Enrolled)	Traveled From Wuhan after 15th January	No. of passengers who have completed observation period	No. of passengers who have Migrated Out	Cumulative Number of passengers found symptomatic	Cumulative Number of Hospitalized cases	Number of Currently hospitalized cases	Number of Non - Traceable Passenger
1	NAGAPATTINAM	03-03-20	0	78	3	19	0	2	0	0	3
2	KANCHIPURAM	03-03-20	0	146	5	71	3	8	0	0	16
3	KANNIYAKUMARI	03-03-20	0	89	17	67	0	2	1	1	1
4	CHENNAI	03-03-20	0	808	12	316	54	9	1	1	93

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# Special Surveillance Information System

for managing COVID-19

State Level User : State nCoV Passengers (data entry)

- Dashboard
- Tamil Nadu
- Dashboard
  - Dashboard (Logistics)
  - Dashboard (Linelist Data)
  - Daily Report of Sample Taken
  - Airport Screening Linelist Passengers
- Data Entry
  - State nCoV Passengers
  - State Logistics per Hospital
  - District Logistics per Hospital
  - State Level Buffer Stocks
  - District Level Buffer Stocks
  - Migrations
  - Logout

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

### State wise linelist nCoV Passengers for Web Form

District	Name	Age
--Select--	Name	Age
Sex	Address	Contact Number
--Select--	Address	Contact Number
Alternate Contact Number	Passport Number	Nationality
Alternate Contact Number	Passport Number	--Select--
Traceable	Country of Visit	City Visited
Yes	--Select--	City of Visit
Date of Arrival from Affected Country	Source of Information	Date of Receipt of Information
Date of Arrival from Affected Country	--Select--	Date of Receipt of Information
Observation started from	Ever developed symptoms (during surveillance period)	Current Status
Observation started from	--Select--	--Select--
Currently Hospitalised	Date of discharge from Hospital	Sample Collected
--Select--	Date of discharge	--Select--
Under surveillance/Migrated Out/Surveillance completed	If Migrated	Date of Reporting
--Select--	--Select--	Date of Reporting
Remarks		
<input type="text"/>		
<input type="button" value="SAVE"/>		

# Special Surveillance Information System

for managing COVID-19

State Level User: State Logistic Dashboard

- Dashboard
- Tamil Nadu
- Dashboard
- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers
- Data Entry
- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks
- District Level Buffer Stocks
- Migrations
- Logout

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

Dashboard (State Level Logistics Data) : Tamil Nadu

235 Number of beds available	65 Number of Ventilators available	15,344 Number of PPEs available (Cumulative)	55,762 Number of N95 masks available (Cumulative)
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EXPORT TO EXCEL PRINT

State / District Level Logistics Data

S.No.	State / District	Number of beds available in the designated isolation wards for suspected Corona virus patients	Number of Ventilators available in the designated isolation wards for suspected Corona virus patients	Number of PPEs available in the designated hospital	Number of N95 masks available in the designated hospital	Number of PPE buffer Stocks	Number of N95 masks buffer Stocks
1	State Designated Hospital	12	3	540	800	9287	48715
2	TIRUCHIRAPPALLI	12	3	439	2854		
3	KARUR	3	1	198	10		
4	DHARMAPURI	4	1	262	119		
5	TUTICORIN	6	1	241	236		
6	THANJAVUR	8	2	390	13		
7	MADURAI	8	2	469	172		
8	TIRUVANNAMALAI	14	5	162	5		
9	KANNIYAKUMARI	12	3	103	330		
10	THIRUVARUR	8	2	200	100		
11	CHENNAI	31	9	488	1013		
Total		235	65	6,057	7,047	9,287	48,715

# Special Surveillance Information System

*for managing COVID-19*

State Level User : State Logistic Hospitals Form

Dashboard

Tamil Nadu

Dashboard

Dashboard (Logistics)

Dashboard (Linelist Data)

Daily Report of Sample Taken

Airport Screening Linelist Passengers

Data Entry

State nCoV Passengers

State Logistics per Hospital

District Logistics per Hospital

State Level Buffer Stocks

District Level Buffer Stocks

Migrations

Logout

☰ SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

### Status of Logistics for 2019-nCoronavirus of all States

State	Name of State Nodal Officer (for nCov-2019)	Contact No. of State Nodal Officer
Tamil Nadu	Dr P Sampath	9443039941
Name of the State HeadQuarters designated Hospital		
Rajiv Gandhi Government General Hospital Chennai		
Number of beds available in the designated isolation wards for suspected Corona virus patients	Number of Ventilators available in the designated isolation wards for suspected Corona virus patients	Number of PPEs available in the designated hospital
12	3	540
Number of N95 masks available in the designated hospital	Compatible for Biowaste Management	
800	Yes	
Name of the State level Designated Hospital (Other than State HeadQuarter Hospitals)		
Name of the State level Designated Hospital (Other than State HeadQuarter Hospitals)		
Number of beds available in the designated isolation wards for suspected Corona virus patients	Number of Ventilators available in the designated isolation wards for suspected Corona virus patients	Number of PPEs available in the designated hospital
Number of beds available	Number of Ventilators available	Number of PPEs available
Number of N95 masks available in the designated hospital	Compatible for Biowaste Management	
Number of N95 masks available	--Select--	

+ Add

SAVE



# Special Surveillance Information System

*for managing COVID-19*

State Level User : District Logistic form for Hospitals

- Dashboard
- Tamil Nadu
- Dashboard
- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers
- Data Entry
- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks

SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

## Status of Logistics for 2019-nCoronavirus of all Districts

District Name

Select District

Name of District Nodal Officer (for nCov-2019)

Name of District Nodal Officer (for nCov-2019)

Contact No. of District Nodal Officer

Contact No. of District Nodal Officer

Name of the District level Designated Hospital (Other than State HeadQuarter Hospitals)

Name of the District level Designated Hospital (Other than State HeadQuarter Hospitals)

Number of beds available in the designated isolation wards for suspected Corona virus patients

Number of beds available in the designated isolation wards for suspected Corona virus patient

Number of Ventilators available in the designated isolation wards for suspected Corona virus patients

Number of Ventilators available in the designated isolation wards for suspected Corona virus

Number of PPEs available in the designated hospital

Number of PPEs available in the designated hospital

Number of N95 masks available in the designated hospital

Number of N95 masks available in the designated hospital

Compatible for Biowaste Management

--Select--

+ Add

SAVE



# Special Surveillance Information System

*for managing COVID-19*

State Level User : State Logistic Buffer Stocks

Dashboard

Tamil Nadu

Dashboard

- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers

Data Entry

- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks

☰ SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

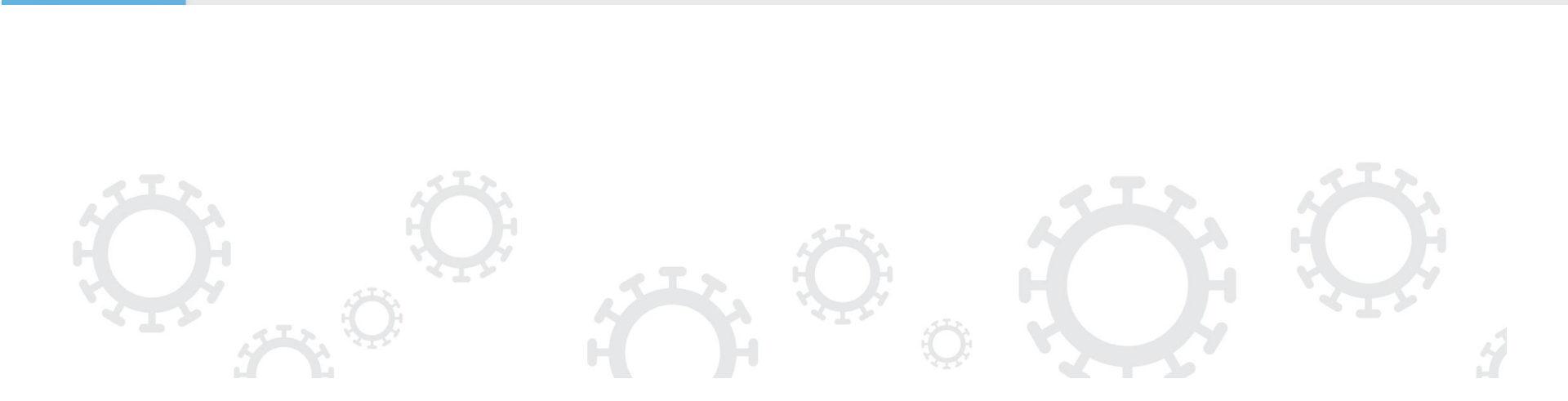
### State Level Buffer Stocks

Note: \* All fields are required

State:

Number of PPEs available as buffer stock at the state level (Other than those in hospitals):


Number of N95 masks available as buffer stock at the state level (Other than those in hospitals):




# Special Surveillance Information System

*for managing COVID-19*

State Level User : District Logistic Buffer Stocks

 Dashboard

 Tamil Nadu

Dashboard

- Dashboard (Logistics)
- Dashboard (Linelist Data)
- Daily Report of Sample Taken
- Airport Screening Linelist Passengers

Data Entry

- State nCoV Passengers
- State Logistics per Hospital
- District Logistics per Hospital
- State Level Buffer Stocks
- District Level Buffer Stocks
- Migrations

☰ SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)

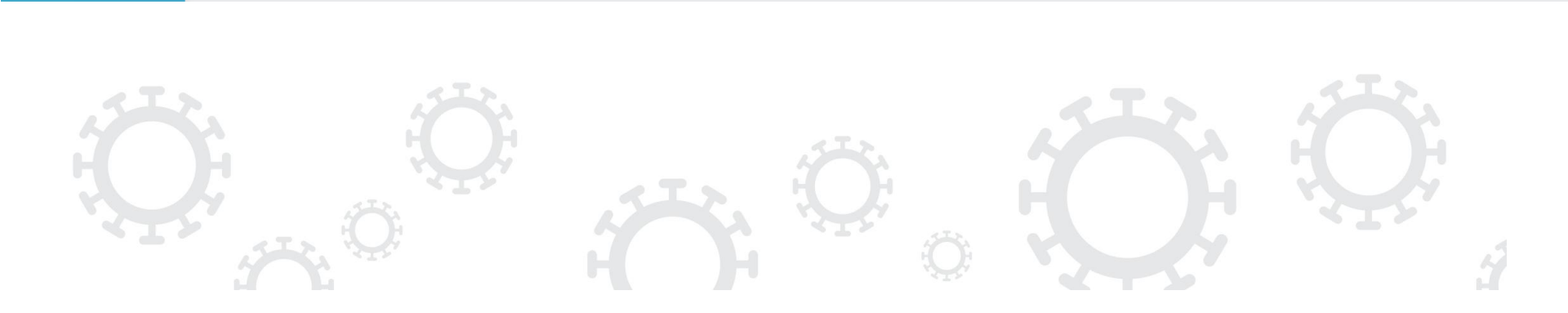
### District Level Buffer Stocks

Note: \* All fields are required

District Name

Number of PPEs available as buffer stock at the District level (Other than those in hospitals)

Number of N95 masks available as buffer stock at the District level (Other than those in hospitals)



# Special Surveillance Information System

for managing COVID-19

State Level User: Line list Migration Request form

The screenshot displays the 'line list nCoV Passengers' interface. On the left is a navigation menu with 'Dashboard', 'data entry Delhi', 'MAIN NAVIGATION', 'Dashboard', 'Migration', and 'Logout'. The main area contains a form for entering passenger details: 'Mobile No.' (with a red box and a green '1' next to it), 'District' (dropdown), 'Name', and 'Migration State' (dropdown). Below the form is a table of passengers with columns: S.No., District, Name, Age, From State, From District, To State, To District, Contact Number, Passport Number, and Action. A 'Migration' modal window is open, showing 'From State' (Delhi), 'From District' (WEST), 'To State' (Karnataka), and 'To District' (HASSAN). The table contains 10 rows of passenger data. At the bottom, there is a copyright notice: 'Copyright © 2020 Centre for Health Informatics, Ministry of Health and Family Welfare (MoHFW), Government of India.'

S.No.	District	Name	Age	From State	From District	To State	To District	Contact Number	Passport Number	Action
1	WEST	ISHAN SHARMA	24	Delhi	WEST			8448036381		VIEW MIGRATION
2	SHAHDARA	JAIN APOORV	25					9810934009	J2552067	VIEW MIGRATION
3	SHAHDARA	VERMA SACHIN KUMAR	37			Karnataka	HASSAN	7011045321	J7465109	VIEW MIGRATION
4	SHAHDARA	SHARMA NITESH	35					0051	N8713886	VIEW MIGRATION
5	SHAHDARA	SHRADHA JAIN	35					92	Z2848332	VIEW MIGRATION
6	SHAHDARA	KUMAR AVATANS	27	Male	pocket-f 82-c mig flats G T B ENCLAVE gtb enclave 110093			9717997401	Z3001314	VIEW MIGRATION
7	SHAHDARA	SINGH LAKHBEER	23	Male	30/4-1158,street no-1,hari om gali WELCOME babarpur shahdara 110032			9871375923	M8238184	VIEW MIGRATION
8	SHAHDARA	VEENA	32	Female	1449/213, 30 feet road SHAHDARA durga puri 110093			7720816060	P9693824	VIEW MIGRATION
9	SHAHDARA	MAGO AKANKSHA	19	Female	b-127 mig flats east of Ioni road JYOTI NAGAR shahdara 110093			8287155210	S6363977	VIEW MIGRATION
10	SHAHDARA	KUMAR ARUN	26	Male	b-127 mig flats east of Ioni road JYOTI NAGAR shahdara 110093			8287155210	S6363978	VIEW MIGRATION

From State and  
From District, To  
State and To  
District.

# Special Surveillance Information System

*for managing COVID-19*

State Level User: Line list Migration Approval form

The screenshot displays the 'SPECIAL SURVEILLANCE SYSTEM - S3 (AS ON 05-03-2020)' interface. The left sidebar contains navigation options: Dashboard, Tamil Nadu, Dashboard (Logistics), Dashboard (Linelist Data), Daily Report of Sample Taken, Airport Screening Linelist Passengers, Data Entry, State nCoV Passengers, State Logistics per Hospital, District Logistics per Hospital, State Level Buffer Stocks, District Level Buffer Stocks, Migrations, Migration List, and Logout.

The main content area is titled 'Linelist Migration Request' and includes a form with the following fields:

- Mobile No. (Input field)
- District (Dropdown menu, currently showing '--Select--')
- Name (Input field)
- Migration Status (Dropdown menu, currently showing '--Select--')

Below the form are 'SEARCH' and 'RESET' buttons. A table below the form displays migration requests:

S.No.	District	Name	Age	From State	From District	To District	Approval status	Action
1	CHENNAI	T.Priyanka	23	Tamil Nadu	CHENNAI	SHIMLA	Pending	<a href="#">VIEW</a> <a href="#">MIGRATION</a>
2	CHENNAI	T.Priyanka	23	Tamil Nadu	CHENNAI	NORTH GOA	Pending	<a href="#">VIEW</a> <a href="#">MIGRATION</a>

A 'Migration' modal dialog is open, allowing for the creation or update of a migration request. It contains the following fields:

- From State (Dropdown menu, currently showing 'Tamil Nadu')
- From District (Dropdown menu, currently showing 'CHENNAI')
- To State (Dropdown menu, currently showing 'Goa')
- To District (Dropdown menu, currently showing 'NORTH GOA')
- Status (Dropdown menu, currently showing 'Pending')
- Remarks (Input field, currently showing 'Migration remarks')

The modal dialog has 'SAVE' and 'CLOSE' buttons at the bottom.





# Special Surveillance Information System

*for managing COVID-19*

**Additional Features:**

Export to Excel

Print

Logout



Thank  
you

