



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

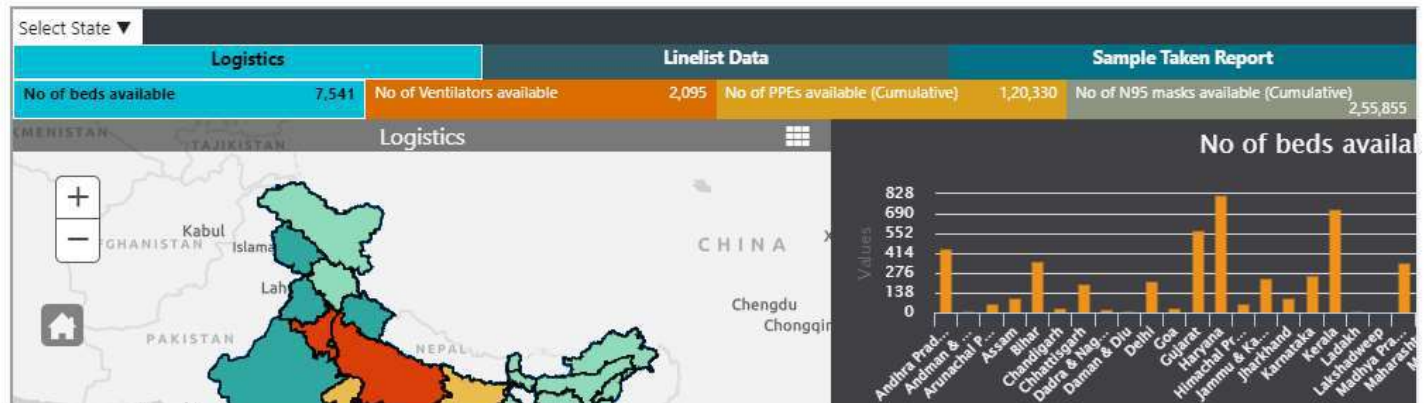
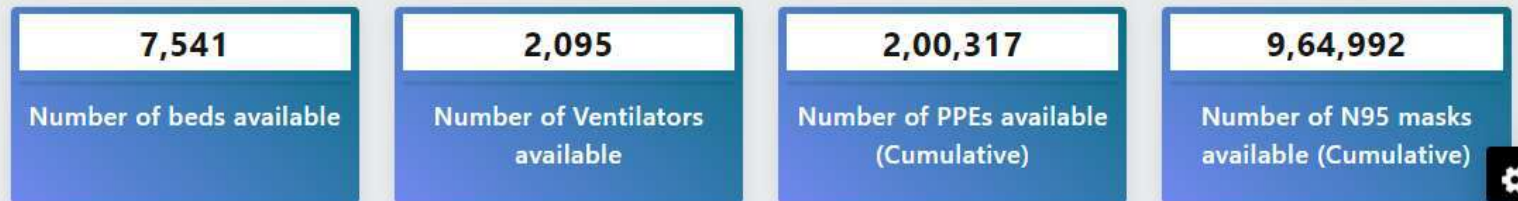
for managing COVID-19

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

Dashboard (National Level Linelist Data)

140 New passengers enrolled for observation Today	24946 Total Passengers Under Surveillance (Cumulative)	1121 Total Number of passengers found symptomatic (Cumulative)	417 Number of passengers Hospitalized (Cumulative)
225 Number of passengers hospitalized Today	437 Total passengers Traveled From Wuhan after 15th January 2020	15396 No. of passengers completed observation period	216 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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Daily Report of Sample Taken

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

National Level Daily Report of Sample Taken



Select State ▼

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

Logistics

No of beds available

State	No of beds available
Andhra Pradesh	414
Assam	138
Bihar	276
Chhattisgarh	138
Dadra & Nagar Haveli	138
Daman & Diu	138
Delhi	138
Goa	138
Gujarat	414
Haryana	138
Himachal Pradesh	138
Jammu & Kashmir	138
Jharkhand	138
Karnataka	138
Kerala	138
Ladakh	138
Lakshadweep	138
Madhya Pradesh	138
Maintanence	138

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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
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- 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		

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	1
	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	1	
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

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

 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 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



Special Surveillance Information System

for managing COVID-19

State Level User : State nCoV Passengers (data entry)

- Dashboard
- Tamil Nadu
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 - Dashboard (Logistics)
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 - 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"/>		

Special Surveillance Information System

for managing COVID-19

State Level User: State Logistic Dashboard

Dashboard

Tamil Nadu

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)

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

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	Name of District Nodal Officer (for nCov-2019)	Contact No. of District Nodal Officer
Select District	Name of District Nodal Officer (for nCov-2019)	Contact No. of District Nodal Officer
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 Ventilators available in the designated isolation wards for suspected Corona virus patients
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 patient	Number of Ventilators available in the designated isolation wards for suspected Corona virus
Number of PPEs available in the designated hospital	Number of N95 masks available in the designated hospital	Compatible for Biowaste Management:
Number of PPEs available in the designated hospital	Number of N95 masks available in the designated hospital	--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)

SAVE



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for managing COVID-19

State Level User: Line list Migration Request form

The screenshot displays the 'linelist 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 'REQUEST MIGRATION' button is highlighted.

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	8826003484	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	

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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 shows a 'Linelist Migration Request' form with the following fields:

- Mobile No. (Input field)
- District (Dropdown menu: --Select--)
- Name (Input field)
- Migration Status (Dropdown menu: --Select--)

Buttons for 'SEARCH' and 'RESET' are located below the form fields.

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	VIEW MIGRATION
2	CHENNAI	T.Priyanka	23	Goa	NORTH GOA	NORTH GOA	Pending	VIEW MIGRATION

A 'Migration' modal dialog is open, showing the following fields:

- From State (Dropdown: Tamil Nadu)
- From District (Dropdown: CHENNAI)
- To State (Dropdown: Goa)
- To District (Dropdown: NORTH GOA)
- Status (Dropdown: Pending)
- Remarks (Input field: Migration remarks)

Buttons for 'SAVE' and 'CLOSE' are located at the bottom of the modal.



Special Surveillance Information System

for managing COVID-19

Additional Features:

Export to Excel

Print

Logout



Thank
you

