

Main report

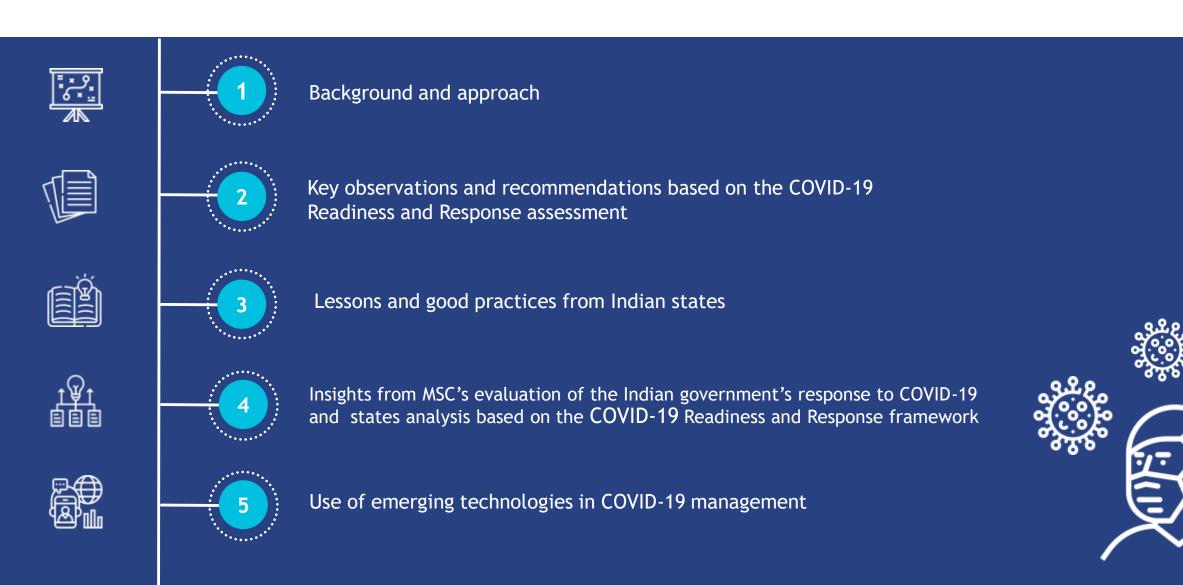
Addressing the COVID-19 pandemic

Lessons and good practices from Indian states: Round 4

July, 2020



## This report is divided into the following five parts:







Background and approach



## Background and context of the study



#### Context and key objectives

- \* MSC is conducting a comprehensive assessment to understand the preparedness and responsiveness of Indian states to the COVID-19 pandemic.
- The study assesses the response of states and the on-ground impact of social assistance programs and other measures taken to address the COVID-19 crisis.
- The study highlights good practices adopted by the states to create a cross-learning platform. This will enable the states to learn from each other.



#### Approach

MSC adopted the multi-phase approach discussed below to attain the key objectives of the study:

- Phase 1 (April, 2020-June, 2020): In this phase, MSC produced <u>three reports</u> on the assessment of states using the COVID-19 Readiness and Response Index. The assessment was based on the announcements of the central and state governments to manage the COVID crisis.
- We are at this stage groundstate
- Phase 2 (May, 2020-July, 2020): This phase includes a validation of the response of the states to the pandemic. This is done by gathering onground evidence through telephonic surveys on the impact of different social assistance programs and other measures of the central and state governments. It also incorporates other elements such as economic recovery once the lockdown is lifted. This is the fourth report and includes 17 States and 1 Union Territory.
  - **Phase 3 (August, 2020-March, 2021):** This phase would include mixed-method research to gather on-ground evidence of the impact of different social assistance programs of the central and state governments.



#### **Key components**

Continuous evolution of the COVID-19 Readiness and Response Index and state assessments A dashboard to track the performance of states and visualize key indicators

A cross-learning platform to share good practices among states to address the COVID-19 pandemic Integration of on-ground evidence with state performance, dashboard, and the cross-learning platform



# A comprehensive assessment has been conducted to understand the preparedness and responsiveness of Indian states to address the COVID-19 pandemic based on four key pillars

Pillar 2

Assessment framework

Pillar A

Pillar 1

#### Robustness of the essentials chain

Assesses factors such as ease of access to essential services (utilities, financial services) and essential items (grocery, fruits & vegetables, and dairy)

#### Assistance to the poor and vulnerable

Assesses the in-kind and cash support provided to the poor, women, vulnerable and disadvantaged groups, and migrant workers

#### **Economic recovery**

Assesses initiatives by the states to boost their local economies, such as fiscal stimulus, reforms, employment support, and targeted outreach

#### Health readiness

pillar

Assesses the availability of healthcare infrastructure, testing coverage, COVID-19 management, and government initiatives to curb the transmission of COVID-19

Note: Please refer to the appendix for details on the sub-pillars within each pillar





Key observations and recommendations based on the COVID-19 Readiness and Response framework

## **Key observations**

Most states continue their efforts to balance economic recovery with health readiness and provide support to the vulnerable. However, the states are yet to initiate power sector and ULB reforms to avail enhanced borrowing limits

01

A majority of the states took concrete steps towards economic recovery. They provided or facilitated subsidized loans to MSMEs, implemented reforms towards "ease of doing business", allowed farmers to sell crops to private players, and provided employment to migrant workers through MGNREGA.

02

Though the states continue to provide cash-transfers to the needy, these transfers have become more targeted at specific occupational groups affected by the lockdown. Cash assistance has been extended to auto-rickshaw and taxi drivers, barbers, washermen, cinema workers, street vendors, construction workers, etc.

03

More than a month after the announcement of the Pradhan Mantri Garib Kalyan Yojana (PMGKY), only 41% of the beneficiaries were aware of the benefits under this package. Among PDS beneficiaries, 68% of households claimed to have received free ration under PMGKY during the lockdown.



Many states have started or are already conducting door-to-door screening to identify at-risk patients and check for community transmission. States have also taken proactive initiatives to promote the use of Ayurvedic and home-based remedies to boost the immunity of front-line workers and the general population.



## **Key recommendations**

The central and state governments can jointly implement the suggestions provided below.

Transition to a smart DBT architecture

Awareness and communication appear to one of the biggest challenges in DBT. The priority should be an integrated smart DBT architecture to create transparency across the fund flow process that includes ministries, PFMS, banks, and end-point channels. This should be coupled with a grievance resolution mechanism that allows beneficiaries to check their status for free through multiple channels including the web, mobiles, a helpline, \* 99#, or USSD.

Integrate the state's apps with Aarogya Setu

Mobile apps of different states could be hosted within the Aarogya Setu app. The latest trends in mobile app deployment such as micro-services and decentralized bundling can be harnessed to address the impending issues such as duplicity of efforts, data privacy, and confusion among users.

Offer refurbished plants to foreign firms

Recognizing the difficulty of foreign manufacturing firms to shift to India, the states could offer immediate access to land and refurbished plants. Customized incentives can also be offered to facilitate a smooth transition. This is currently being planned in Uttar Pradesh.

Outreach and training of village officials

Continuous engagement and training of *gram panchayats* and community leaders could be effective to safeguard rural India. The training can include ways and approaches to curb the spread of COVID-19 and the generation of awareness of various government programs and their benefits. The National Institute of Rural Development could be engaged for this task.

Recognize the role of ASHA and ANM workers

Given their crucial role in health systems and reduced income during this period, a cash transfer program, similar to the one implemented in Karnataka, could be rolled out for ASHAs and ANMs. This could also boost their morale and public recognition and ensure the cadre built over the past so many years does not disintegrate.

Pay special attention to divyang or the disabled

A dedicated helpline and initiative to manufacture and distribute transparent masks, like in Tamil Nadu, could be launched at the national level. The local authorities could also be sensitized to help disabled people access essential items and services.





## Robustness of the essentials chain: Key lessons and good practices from states

# Combining safety and accessibility



#### Gujarat, Kerala

The use of digital payments is mandatory for all home deliveries in Ahmedabad. The Ahmedabad Municipal Corporation sensitized the shop owners who sell essential items to use digital payment platforms such as Uniifed Payments Interface (UPI).

The Kerala State Electricity
Board (KSEB) has created a
consumer-number-based
timetable to avoid overcrowding while making payments
at the KSEB counters.

## Tariff rebates for weaker sections



#### Punjab, Gujarat

The Punjab State Electricity
Regulatory Commission has
reduced the tariff for domestic
consumers with loads of up to 50
KW. The tariff is slashed by 50
paise/unit for the consumption of
up to 100 units and by 25
paise/unit for consumption
between 101 to 300 units. The
tariff rebate will be applicable
from 1st June, 2020 to 31st March,
2021.

As part of the Gujarat
Atmanirbhar package, the state
government has announced rebate
on the first 100 units for
domestic electricity consumers
who use less than 200 units per
month.

# Innovative home delivery models



#### Odisha, Andhra Pradesh, Bihar

The women self-help groups (SHGs) under "Mission Shakti" in Odisha operated dry ration and vegetable shops and mobile vans to provide essential items to lakhs of households affected by the lockdown.

The Government of Andhra Pradesh has partnered with e-commerce players Zomato and Swiggy for home delivery of fruits and vegetables from the Rythu Bazaars. This initiative also helps farmers sell their produce in a timely manner.

The Fishery Directorate of the Government of Bihar has launched a mobile app for home delivery of fish within the state.

## Financial services in remote areas



#### Uttar Pradesh, Odisha

India Post partnered with local administrations in Uttar Pradesh to organize camps to disburse cash through the *Aadhaar*-enabled payment system (AePS) in remote areas in 20 districts.

The district administration of Kendrapada (Odisha) facilitated the roll-out of dedicated mobile ATM operated by the HDFC Bank to provide cash withdrawal services in rural parts of the district.

Many states launched similar mobile ATM initiatives in coordination with the local administration.



## Assistance to the poor and vulnerable: Key lessons and good practices from states (1/2)

## Easy access to ration for the excluded



#### HR, UP, Rajasthan, Kerala

Haryana launched a "distress ration token" facility to provide ration to poor households that do not have ration cards. These tokens can be issued by the local committees during household surveys or through a call on the helpline.

Uttar Pradesh has been proactive in issuing ration cards to migrant workers. Rajasthan is also proactive in providing ration to migrant workers.

Kerala has started a facility of "eration cards" that can be issued by Akshaya centers (CSCs).

## Targeted cash transfers



#### AP, Karnataka, TN, Assam

Andhra Pradesh and Karnataka are providing cash assistance of INR 10,000 and 5,000, respectively, to barbers, washermen, and auto and taxi drivers.

The Government of Tamil Nadu extended relief assistance of INR 1000-2000 to hairdressers, weavers, platform vendors, cineworkers, and ration-card holders during the lockdown.

Assam has made a one-time payment of INR 25,000 to residents who are suffering from critical diseases and are stranded in other states.

## Easy movement of migrant workers



#### Uttar Pradesh, AP

Uttar Pradesh appointed nodal officers to proactively coordinate with multiple states and register migrants entering and leaving the state at the "Jan Sunvayi" portal for better allocation and distribution of tickets.

Many states, including Haryana and Rajasthan, launched similar portals and helplines to enable the movement of migrant workers.

Andhra Pradesh set-up food counters at every 50 km on highways to provide food and water to migrants.

## Proactive support to women



#### TN, Telangana, J&K

Tamil Nadu and Telangana allocated dedicated vehicles and ambulances for the transportation of pregnant women. ASHA and ANM workers in Telangana are keeping a track of expectant mothers and their delivery dates.

The UT of Jammu and Kashmir has a 24X7 helpline to provide end-to-end assistance to pregnant women.

Many states have launched a dedicated helplines to curb domestic violence.



## Assistance to the poor and vulnerable: Key lessons and good practices from states (2/2)

# Caring for the elderly & chronic patients

#### Kerala, Rajasthan, Telangana

Under Kerala's "Prasanthi" program, the elderly who live alone can call and request for essential medicines, food, treatment, and counseling.

Rajasthan has extended the availability of prescription-based medicines to senior citizens and chronic patients until July 31, 2020.

Telangana has added 17 more palliative health and home care vehicles to provide door-step services to immobile patients in 16 more districts.

## Helping hand to disabled & destitute



#### Tamil Nadu, Uttar Pradesh

The state of Tamil Nadu is distributing transparent face masks for people with hearing impairments. It is planned that nearly 81,000 masks will be distributed to 13,500 people with impaired hearing and speech difficulty as well as their parents, family members, caregivers, etc.

Uttar Pradesh is providing cash assistance of INR 1000 to the destitute and arranging for their treatment.

# Being sensitive to children's needs



#### Delhi, Tamil Nadu, Odisha

The Department of Women and Child Development, the Government of Delhi provided milk packets, nutritious biscuits, and food supplements to children.

The Government of Tamil Nadu distributed rehabilitation kits and special nutrition kits to children with autism who are attending early intervention services. The kits would help parents manage these children at home.

Odisha's "Bharosa" helpline helps students cope with stress amid COVID-19.

# Recognizing the transgender



#### J&K, Tamil Nadu, Karnataka

Jammu and Kashmir included transgenders in the Integrated Social Security Scheme. This will help resolve around 2,000 pending pension cases of transgenders within the state.

The Tamil Nadu government is providing essential commodities to transgender citizens who do not possess the family card (needed to get ration).

The Karnataka government, under the Mythri Yojana, provides cash assistance of INR 600 per month to trans women above the age of 25.



## Health readiness: Key lessons and good practices from states (1/2)

## Pool and mobile testing



Expansion of random testing & fever clinics



Door-to-door screening



Strong focus on contact tracing



#### UP, Punjab, TN, Delhi

Uttar Pradesh was the first state to start pool testing. It has also extended its testing coverage through the installation of TrueNAT\* machines in every district.

Many other states, such as Kerala, Tamil Nadu, Andhra Pradesh, Assam, and Karnataka, among others, have also started pool testing.

Punjab and Tamil Nadu have launched mobile testing labs to collect swab samples from rural and remote areas.

Delhi has deployed mobile testing vans to collect samples in Central Delhi district.

#### Kerala, Bihar, MP

The Kerala government has started sentinel surveillance or random testing to detect community transmission. Samples are collected from high-risk groups, such as healthcare professionals and other individuals with high social exposure which include delivery persons and police officers, etc.

Bihar conducted random testing on migrant workers who returned to the state to check the extent of COVID-19 transmission.

Madhya Pradesh runs fever clinics in every district to conduct community screening and identify people with the symptoms of COVID-19.

Karnataka and Maharashtra are also running fever clinics.

#### Karnataka, Assam, Others

Karnataka conducted a statewide door-to-door survey to check for community transmission. This helped identify households with high-risk individuals, such as the elderly, people with comorbidities, pregnant women, and lactating mothers.

Assam conducted a door-to-door surveillance exercise to check for community transmission and identify cases of fever, influenza, and respiratory infections in the community.

Other states, such as Punjab, Delhi, Rajasthan, and Odisha have also initiated door-to-door screening to check for community transmission.

#### Karnataka, Kerala

Karnataka has trained more than 10,000 field staff to conduct comprehensive contact tracing. The state has widened the definition of "contact" to include high-risk and low-risk contacts of patients with COVID-19. Karnataka also has a contact tracing mobile app and web application that supports on-ground contact tracing.

Kerala has adopted a comprehensive contact tracing strategy based on flow charts, indepth interviews, and effective outreach through the field teams. The state uses both the Aarogya Setu app and its mobile application for contact tracing.



<sup>\*</sup> TrueNAT systems are originally used for TB testing. After successful validation, ICMR has allowed its usage for screening and confirmation of COVID-19 cases.

## Health readiness: Key lessons and good practices from states (2/2)

# Creativity in public awareness

# Engaging panchayats and local committees

# Boosting the immunity



## Other notable interventions



#### Maharashtra, WB, J&K

An innovative community awareness program is underway in Maharashtra. Under this program, pre-recorded announcements are made through auto-rickshaws and tempos. Artists have recorded songs in local languages to make the announcements more effective.

The local district administrations of West Bengal use folk songs and street plays to increase the awareness of COVID-19.

Jammu and Kashmir launched a tele session program called Sukoon on YouTube to spread information on COVID-19 and help people handle stress.

#### UP, Telangana, AP, Karnataka

The Uttar Pradesh government created local surveillance committees in all villages and cities for community surveillance and monitoring of home quarantine of migrant workers. The committee comprises panchayat officials, ASHA workers, and ward councilors, among others.

The state governments of Telangana, Andhra Pradesh, and Karnataka partnered with the National Institute of Rural Development and UNICEF to train rural community leaders on controlling the spread of COVID-19 in villages.

#### Rajasthan, UP, Punjab, TN

Rajasthan distributed a decoction of ashwagandha and giloy to about 20 lakh (2 million) citizens to boost their immunity.

Uttar Pradesh launched a mobile app called "Ayush Kavach" to spread awareness on enhancing immunity through homemade products. The app also facilitates live yoga sessions.

The Punjab government distributed Ayurveda medicines to boost the immunity of frontline workers.

The Tamil Nadu government also distributed a herbal concoction called "Kabasura Kudineer" to families located in containment zones.

#### **Multiple states**

The Karnataka government announced a cash assistance of INR 3,000 to all ASHA workers.

Tamil Nadu created human milk banks to help infants separated from their mothers who tested positive for COVID-19. This will help improve nutrition in the first few weeks of the infants' birth.

Many states, such as Kerala, West Bengal, Jammu and Kashmir, Madhya Pradesh, and Bihar offer counseling and psychological help through helplines.



## Economic recovery: Key lessons and good practices from states (1/3)

# Comprehensive packages for MSMEs



#### Kerala, Andhra Pradesh

The Government of Kerala launched a special package worth an INR 3,434 crore (INR 34.34 billion) for MSMEs. The package, called "Vyasasaya Bhadratha," covers interest subvention on term loans and working capital loans, waiver of rental and facility charges, etc.

Andhra Pradesh came up with an INR 1,110 crore (INR 11.10 billion) "ReSTART" policy to provide support to MSMEs. The policy includes the release of pending incentives, waiver of fixed demand charges, and working capital loans.

Many other states offer short-term loans at lower interest rates along with moratoriums on existing loans.

## Attracting foreign investments



#### TN, Maharashtra, UP

Tamil Nadu signed MoUs with 17 foreign companies with investments worth INR 15,128 crore (INR 151.28 billion) to manufacture heavy vehicles, electronics, footwear, energy, medical equipment, etc.

Maharashtra signed MoUs with 12 Indian and foreign firms with investments worth INR 16,000 crore (INR 160 billion) in IT and IT-enabled services, automobiles, oil and gas, chemicals, and FMCG sectors.

Uttar Pradesh proactively reached out to foreign companies. It is currently in discussion with a South Korean electronics major to set up a plant worth more than INR 5,000 crore (INR 50 billion) in the state.

## **Enacting the Doing Business reforms**



#### MP, UP, Punjab, Karnataka,

The Madhya Pradesh government decided to issue registrations or licenses under different labor laws in a single day through an online system. A provision to maintain a single register under the labor laws and self-certification for filing returns has been proposed.

Uttar Pradesh set up a nodal agency called "Invest UP" to clear all investment proposals in 15 days.

The Punjab government decided to grant Consent to Establish (CTE) or Consent to Operate (CTO) to green category industries in a single day, based on self-certification.

# Integrated services for the industry



#### Haryana, UP, Kerala

The Haryana government launched a Haryana Udhyam Memorandum Portal (HUM) to provide unique identification (UID) to all enterprises and grant all permissions and services in an integrated manner.

The Government of Uttar Pradesh integrated the services of the State Industrial Development Authority with the "Nivesh Mitra" portal. This would enable additional one-stop accessibility of services to all entrepreneurs.

The Department for Promotion of Industry and Internal Trade in Kerala set up a control room to monitor and address issues that the industry faces.



## Economic recovery: Key lessons and good practices from states (2/3)

## **Employment for** migrant workers

Uttar Pradesh, Others

Uttar Pradesh is mapping the skills

of its almost 32 lakh (~3.2 million)

migrant workers. The state has

migrant workers to promote

employment at the local level.

with four industrial bodies to

employ around 11 lakh (1.1

and mobile apps to connect

West Bengal, Telangana, and

programs for migrant workers.

Assam plan to start skilling

migrant workers to employers.

million) migrant workers.

launched a Labour (Employment

Exchange and Job) Commission for

Uttar Pradesh has also signed MoUs

Madhya Pradesh, Rajasthan, and Odisha have also launched portals



## Promotion of selfemployment



## Haryana, Gujarat

The Haryana government will facilitate loans of up to INR 15,000 through small business banks. Around 3 lakh (300,000) businesses will benefit from these loans and the state government will an interest rate subsidy of 2% on these loans.

The **Gujarat** government is

poor who want to start their own

offering an interest rate subsidy of 4% for loans up to INR 2.5 lakh (INR 250,000) for business and shop owners.

### Support for urban poor and weavers



#### Kerala, Odisha

Odisha launched an INR 100 crore (INR 1 billion) urban wage employment initiative. This would provide livelihood opportunities to the urban poor by engaging them in various urban infrastructure building initiatives.

The Kerala government sanctioned INR 41 crore (INR 410 million) to "Avvankali Urban Employment Guarantee Scheme (AUEGS)". The program provides 100 days of employment to an urban household whose adult members volunteer to perform unskilled manual work.

The Odisha government is providing interest-free loans to the Odisha **State Handloom Weavers** Cooperative Society and others for the procuring goods from weavers.

## Sustaining self-help groups (SHGs)



#### AP, West Bengal, TN

The Government of Andhra Pradesh announced interest-free loans worth INR 1,400 crore (INR 14 billion) to the 8.78 lakh (878,000) SHGs that operate in the state.

The West Bengal government has decided to double the coverage of SHGs to nearly 10 lakh (1 million) in FY 21. The loan target to SHG groups has been increased to INR 15.000 Crores (INR 150 billion) in FY 21.

The Government of **Tamil Nadu** has decided to offer short-term loans with a duration of approximately one year to members of SHG at an interest of 10.4%.



## Economic recovery: Key lessons and good practices from states (3/3)

# Reforms in the agriculture sector



# Income support to farmers



## allied sectors

# Increase in wages under MGNREGA

#### MP, UP, Gujarat

Madhya Pradesh was the first state to amend the Mandi Act during the lockdown. This allowed farmers to sell their produce to private traders from their homes.

As per the amended act, private godowns and cold storages can operate as sub-markets and farmers can also directly sell their crops to food processors, exporters, and others to realize the maximum price.

The states of Uttar Pradesh and Gujarat have also introduced the agriculture marketing reforms mentioned above.

#### Haryana, Karnataka, WB

Haryana has decided to provide an incentive of INR 7,000 per acre to farmers for the cultivation of non-paddy crops to address the shortage of labor and the groundwater crisis. The incentive will be provided in two installments.

The Karnataka government is providing cash assistance of INR 5,000 to maize farmers.

The West Bengal government has increased the coverage of Kisan Credit Card (KCC) to 46 lakh (4.6 million) farmers. The state has also increased the quantum of loans for *Kharif* crops to INR 10,000 crore (INR 100 billion).

#### Odisha, J&K,

Promotion of the

The government of Odisha announced the setup of 2,000 hectares of new fish ponds, 4,500 broiler farms, and 750 layer farms in the cage system to support the fisheries and animal husbandry sectors.

The UT of Jammu and Kashmir announced a subsidy package worth INR 50 crore (INR 500 million) to establish broiler or layer farms and for allied activities to support the poultry sector.

#### Tamil Nadu, Odisha

The Government of Tamil Nadu increased the wages provided under MGNREGA to INR 256 per day.

The district administration of Keonjhar district in Odisha increased the wages under MGRENGA to INR 298 per day. The additional burden will be met through the District Mineral Fund.

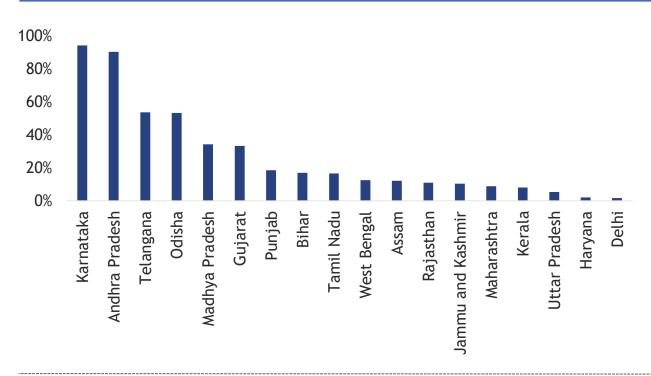
New enrollments for work under MGNREGA have increased significantly in Uttar Pradesh, Madhya Pradesh, Odisha, and Rajasthan, among others.





# The southern states of Karnataka, Andhra Pradesh, and Telangana were front-runners in utilizing multiple channels to facilitate the home delivery of grocery items





In Karnataka, community interventions, such as assisted home-delivery by *panchayat* officials and local workers, combined with dedicated mobile apps 'such as 'Homeline' ensured the wider delivery of essential items.

States adopted numerous channels, such as mobile vans for the delivery of fruits and vegetables as well as helplines, mobile apps, and dashboards to facilitate home delivery of groceries.

In the tele-survey, a few respondents observed a marginal inflation in the prices of essential items.

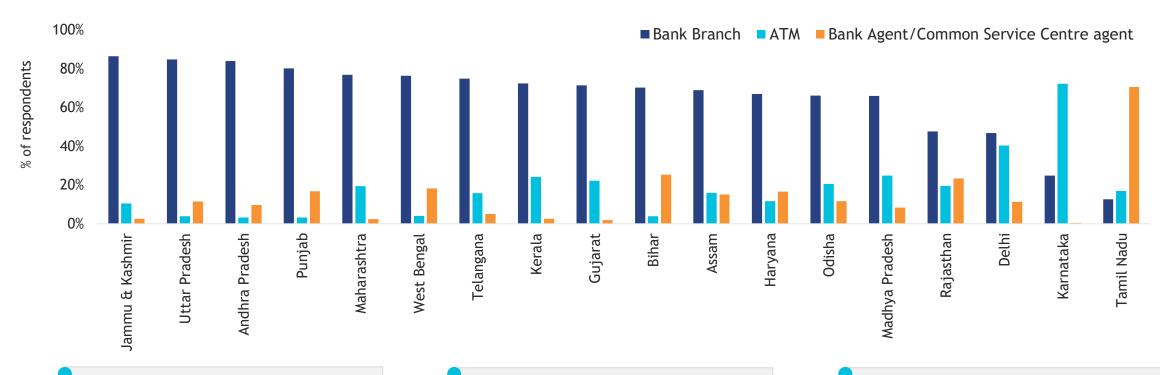
# Number of states Number of states % of respondents who receive the home delivery of vegetables 40-50% 30-40% 20-30% 10-20% 0-10%



<sup>\*</sup> Based on MSC's evaluation of Indian government's response to COVID-19. The tele survey was conducted between May 1-10, 2020

# Banks were the preferred channel, especially for lower-income groups. Trust in banks and beneficiaries needing to seek help in enquiring about status of cash transfers are likely reasons

#### Cash withdrawal preferences of the respondents during the lockdown\*





In Karnataka, respondents in the tele survey (qualitative) said that the banks sent Micro-ATMs to the villages to withdraw cash.



In Tamil Nadu, respondents in the tele survey (qualitative) pointed that they preferred bank agents as the banks are located far away.

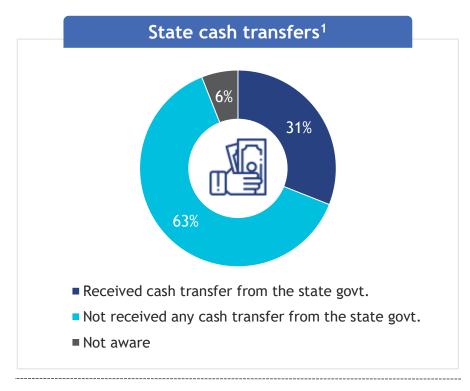


The tele survey data\* indicated that cash withdrawal from Indian Post Payments Bank/ Post Office was only 2%-3%.

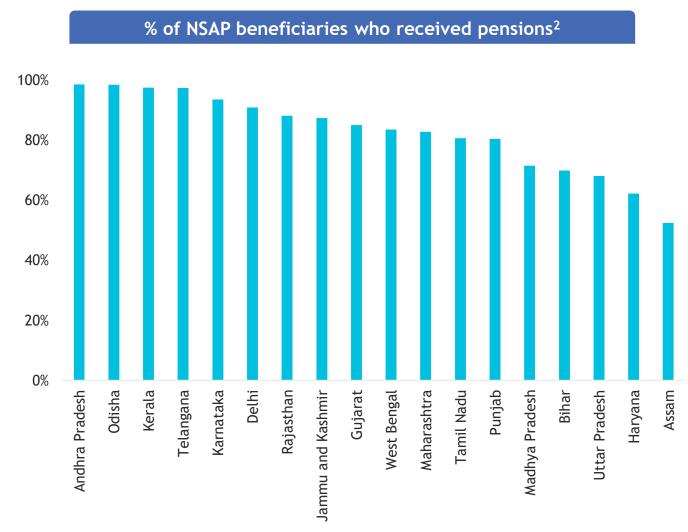


<sup>\*</sup> Based on MSC's evaluation of Indian government's response to Covid-19. The tele survey was conducted between May 1-10, 2020

# Most states have gone the extra mile to provide cash assistance to the poor and vulnerable, especially the segments that have been traditionally excluded



Many states such as Haryana, Uttar Pradesh, Rajasthan, Andhra Pradesh, and Tamil Nadu, among others, rolled out cash transfer programs for BPL households, workers in the unorganized sector, stranded migrant workers, etc.

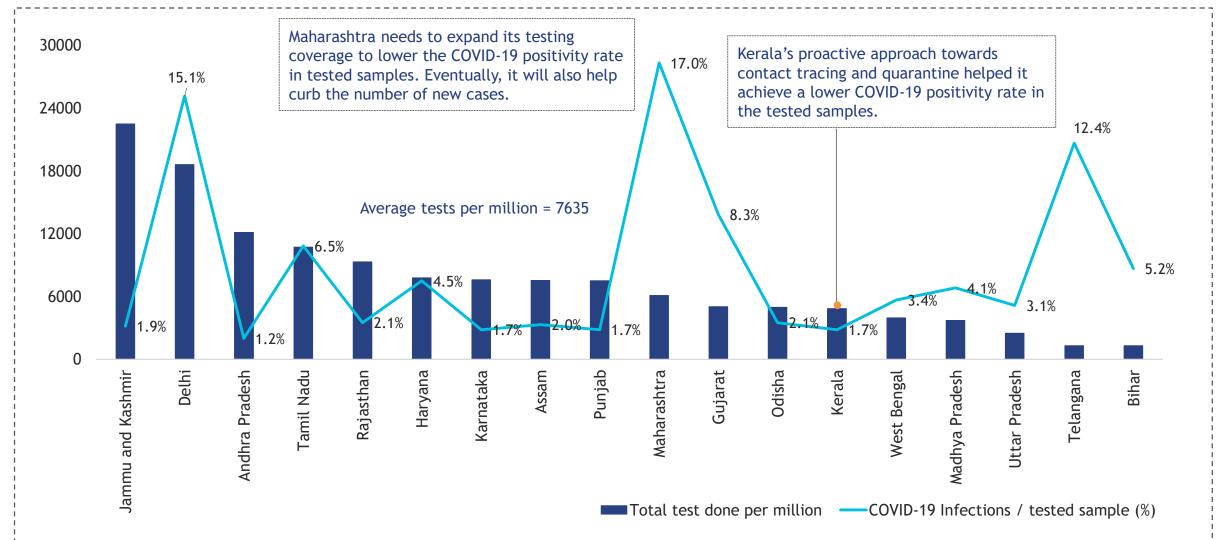


<sup>1.</sup> Based on MSC's evaluation of the response of the Indian government to COVID-19. The tele survey was conducted between May 1-10, 2020.

<sup>.</sup> NSAP provides financial assistance in the form of pensions to widows, disabled, and the elderly. The data includes beneficiaries who received at least one pension under NSAP and were able to withdraw it.



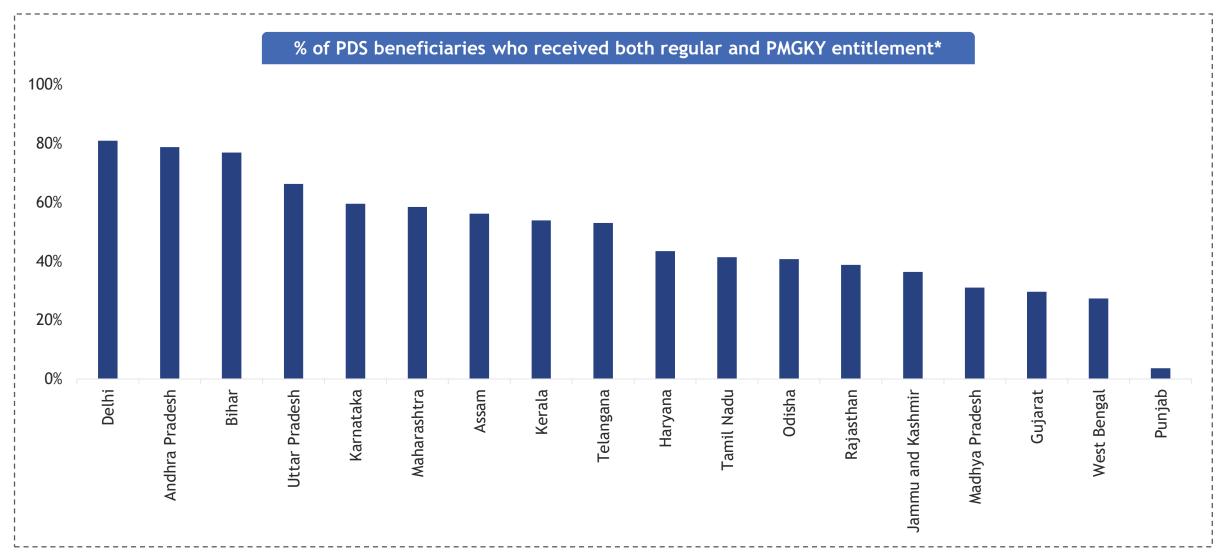
Kerala, Karnataka, and Punjab used strict preventive measures, such as contact tracing and isolation effectively to keep COVID-19 positivity rate in tested samples below 2%. This was achieved despite conducting less than the average number of tests among the selected states\*



<sup>\*</sup> Based on COVID-19 cases and tests done until June 16, 2020



# More than 90% of beneficiaries under the Public Distribution System (PDS) received ration either through their regular entitlement or both regular and PMGKY entitlement or only PMGKY entitlement



<sup>\*</sup> Based on MSC's evaluation of the response of the Indian government to COVID-19. The tele survey was conducted between May 1-10, 2020







# States continue to utilize emerging technologies to deploy innovative solutions to address the COVID-19 pandemic









#### Open-source architecture

Creation of an open-source public platform called the Corona Safe Network. The software is designed by innovators and volunteers working to support the state government.

The open-source platform has been used to develop, test, and deploy multiple applications on contact tracing, telemedicine, availability of hospital beds and quarantine facilities, and ambulance services, among others. (Kerala)

#### Geotagging and GIS

- Use of geotagging in the delivery of pensions to bring more transparency and avoid leakages. (Andhra Pradesh)
- Use of geospatial mapping to provide information on containment zones, hotspots, location of patients, primary and secondary contacts, testing and collection centers, isolation centers, fever clinics, etc. (Karnataka)

#### Analytics and artificial intelligence

- Partnership with SAS to deploy highend analytical tools in COVID-19 dashboards. This would help implement epidemiological models to predict the timing and magnitude of the infection and the resources required. (Odisha, Uttar Pradesh, Maharashtra, Rajasthan, Assam)
- Partnership with IBM for the deployment of a chatbot based on artificial intelligence and natural language processing to answer queries on COVID-19 in multiple languages. (Andhra Pradesh)

#### Tele-ICU

- Partnership with Cloud physician to deploy India's indigenously developed 24\*7 tele-ICU in the Gulbarga Institute of Medical Sciences (GIMS).
- The tele-ICU enables remote monitoring of patients through audiovisual tools and internet sensors.

States such as Kerala have used open-source architecture to build healthcare applications on the principle of "Technology as a public good"

# State governments have used mobile apps and other IT applications widely as a public engagement tool during the COVID-19 pandemic

State	Application name	Category	Purpose	Downloads
Andhra Pradesh	COVID-19 Andhra Pradesh	Informative	<ul> <li>Provides information about the status of the district, mandal, or village as well as dos and don'ts, announcements, and media bulletins</li> </ul>	100k+
Assam	COVAAS	Informative	<ul> <li>Brings together all initiatives of the state under a single platform</li> <li>Provides information on donations, e-pass, volunteer, emergency support</li> </ul>	10k+
Bihar	No info available	N/A	• N/A	N/A
Delhi	Delhi Corona	Informative	<ul> <li>Provides information on donations, lockdown services, such as ration, shelter, e-pass, etc.</li> </ul>	100k+
Gujarat	SMC COVID-19 tracker	Monitoring/Tracing	<ul> <li>Initially launched by the Surat Municipal Corporation and later adopted by the entire state. Primarily used to track quarantined individuals</li> </ul>	100k+
Haryana	Jan Sahayak - HelpMe App	Informative	• Provides services, such as telemedicine, movement passes, assistance in procurement, delivery of dry ration and cooked food, education etc.	10k+
Jammu and Kashmir	No info available	N/A	• N/A	N/A
Karnataka	<ul><li>Corona Watch</li><li>Quarantine</li><li>Watch</li></ul>	Informative, Tracking/ Monitoring	<ul> <li>Provides information on the nearest hospitals, sample collection centers and testing labs, and locations of the cases</li> <li>Self-reporting by individuals quarantined at home and their families (Quarantine Watch)</li> </ul>	100k+ (CW) 50k+ (QW)
Kerala	GoK Direct	Informative	General awareness, quarantine protocols, advice to citizens and NRIs	100k+



# Around two-thirds of the various mobile apps and dashboards that the states use are to disseminate information while the rest are used to monitor and track COVID-19 cases

State	Application name	Category	Purpose	Downloads
Madhya Pradesh	Sarthak Lite	Informative	• Provides information about the nearest treatment facility, collection centre, or fever clinic as well as a health bulletin, etc.	50k+
Maharashtra	Mahakavach	Tracing/Monitoring	A digital contact tracing app that helps citizens contribute and assist in tracing contacts with the potential risk of COVID-19	50k+
Odisha	<ul> <li>Odisha COVID         <ul> <li>Dashboard</li> <li>COVID-19 Odisha</li> </ul> </li> </ul>	Informative, Monitoring/Tracing	<ul> <li>Provides services like general information, e-pass application, and self-assessment (Odisha COVID-19 Dashboard)</li> <li>Enables quarantine registration and quarantine reporting (COVID-19 Odisha)</li> </ul>	50k+ (OCD) 10k+ (CO)
Punjab	COVA	Informative	Provides information on preventive care, travel instructions, self screening, general awareness, nearby hospitals and the helpline etc.	1m+
Rajasthan	RajCovidInfo	Tracing/Monitoring	Provides COVID-19 guidelines and health advisory, location-based push alerts, list of hospitals, dos and don'ts, helpline etc.	100k+
Tamil Nadu	COVID-19 Care Tamil Nadu	Informative	Provides real time COVID-19 outbreak info, statewide and district- wise spread, emergency contacts, containment zones etc.	100k+
Telangana	T COVID'19	Informative	<ul> <li>Provides information on government and private hospitals with isolation wards, labs, telemedicine, helpline, Annapurna food location, essential services, announcements, etc.</li> </ul>	50k+
West Bengal	COVID-19 West Bengal	Monitoring/Tracing	Monitors individuals in home isolation and quarantine	100k+
Uttar Pradesh	Ayush Kavach - COVID	Informative	Provides updates for a healthy lifestyle and measures to boost immunity, based on locally and easily available home remedies etc.	1m+





Appendices



# For the fourth and current version of the study, we revamped the index to integrate the on-ground evidence and reflect the evolving response of the state governments to the COVID-19 pandemic

Pillars in phase 1 (3 rounds)

Sub-pillars for the initial study

Pillars in phase 2

Sub-pillars for the current study

Rationale

for revision

More attention on the ease of access to essential items



## Robustness of the sustenance chain

- Access to food
- Access to fuel and utilities
- Access to essential goods
- Access to financial instruments

## Robustness of the essentials chain

- Ease of access to utilities
- Ease of access to essential items
- Ease of access to financial services
- Public engagement and communication

Adequate focus on the poor and vulnerable



#### **Vulnerability assistance**

- Income support for poor
- Support for migrant workers, homeless, and the destitute
- Support for the disabled, elderly, children, women, and trans people

## Assistance to the poor and vulnerable

- Feeding the poor
- Cash assistance to the poor
- Support to women and the disadvantaged
- Support for the movement of migrant labors
- Public engagement and communication



#### Health readiness

- Medical infrastructure
- Availability of ventilators
- Availability of testing labs and kits
- COVID-19 cases/tested sample + CFR
- Screening, contact tracing, surveillance, and IEC

#### Health readiness

- Medical infrastructure
- Testing strategy
- COVID-19 management
- Government initiatives and IEC



## Industry and livelihood support

- Waiver of compliance requirements
- Ease of working capital requirements
- Unorganized and organized sector benefits

#### **Economic recovery**

- Impacted GDP
- Fiscal stimulus
- Reforms
- Employment and livelihood support
- Public engagement and communication

Evolving priorities for COVID-19 management National and state focus to revive the economy





The COVID-19 Readiness and Response assessment framework



Assesses factors, such as the ease of access to essential services (utilities, financial services) and essential items (grocery, fruits and vegetables, and dairy)

MSC's tele-survey weightage of 30% is given to two subpillars: a) Ease of access to essential items and b) Ease of access to financial services

Public engagement and communication

Covers channels and outreach efforts to inform, educate, gather feedback, and resolve complaints related to essential items, utilities, and financial services

Ease of access to financial services Covers the operational timings of bank branches and any other physical and digital initiatives to improve the accessibility to financial services Ease of access to utilities

Covers the supply situation and ease of access to electricity and water utilities. It also looks at the financial exemptions and support provided by states on electricity and water bills

Covers access to essential items covers access to grocery, fruits and vegetables, dairy, and other essentials across the state



03

## Pillar 2: Assistance to the poor and vulnerable

Assesses the in-kind and cash support provided to the poor, women, vulnerable and disadvantaged groups, and migrant workers

MSC's tele survey weightage of 30% is given to three subpillars: a) Feeding the poor; b) Cash assistance to the poor; and c) Support to women and the disadvantaged

Public engagement and communication Covers initiatives of the states to establish effective communication with the vulnerable population through various channels intended to help them enroll or avail the entitled benefits

Support for the movement of migrant labors

Covers initiatives of the states to arrange free
transport of migrant workers and in-transit
support, such as food, shelter, etc.

05

**1** Feeding the poor

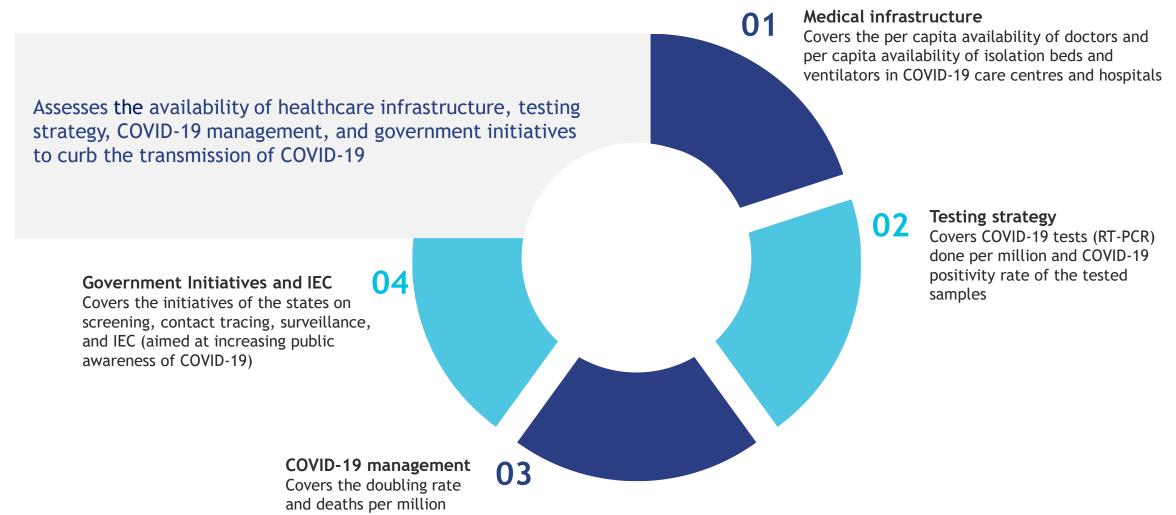
Covers food-related support provided to vulnerable groups. This includes PDS distribution to both NFSA and non-NFSA beneficiaries, community kitchens, and other initiatives such as distribution of food kits.

Cash assistance to the poor
Covers all cash transfers by the
state government to the registered
BPL population, unregistered BPL
households, and occupational
groups, among others.

Support to women and the disadvantaged

Covers the support and benefits provided to women and disadvantaged groups, such as the elderly, children, differentlyabled, and the trans population







## Pillar 4: Economic recovery

Assesses initiatives by the states to boost their local economies, such as fiscal stimulus, reforms, employment support, and targeted outreach to the industry and the workers

Public engagement and communication Covers the channels and outreach efforts of the states to address any concerns of companies, workers, and employees and the facilitation of access to government services

#### **Employment support**

Covers the support given by the states to MSMEs, the agriculture sector, among others. Also covers employment support provided to migrant workers, the organized labor force, SHGs, and self-employed individuals, etc.

05



#### Impacted GDP

Taken as projected per capita GDP of Indian states for FY 21 released by the State Bank of India in the Ecowrap Issue No. 22, FY 21

#### Fiscal stimulus

Covers public investments in infrastructure and other sectors as well as capital subsidy and other direct financial support to the private sector (MSMEs, industry, startups)

#### Reforms

Covers the implementation of reforms linked with conditional assistance to states under the Atmanirbhar Bharat package

- One Ration One Card
- Ease of doing business
- Power distribution (AT&C losses)
- Urban local body revenues and any other reforms



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#### Our impact so far

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Developed

275+ Fl products

and channels now used by

55 million+ people

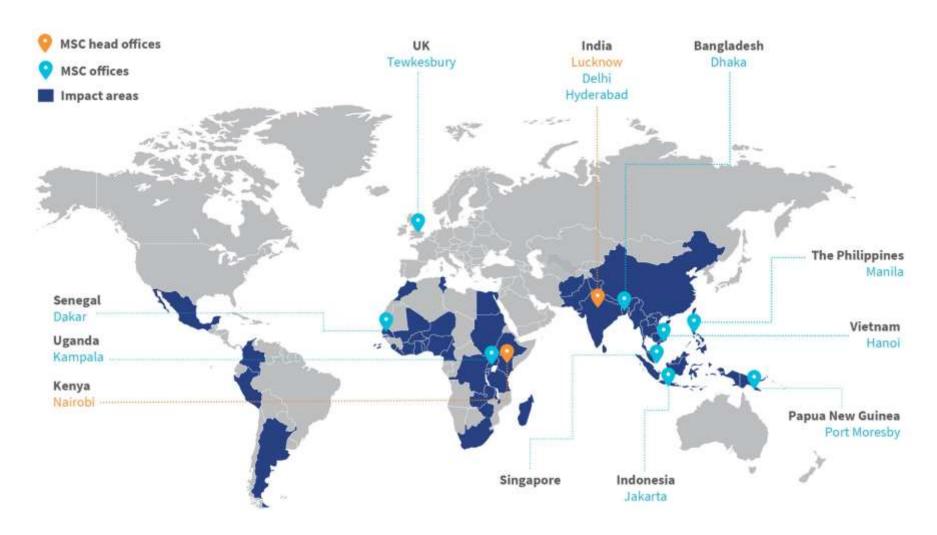
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