WHAT IS PANDEMIC?

- A pandemic is the worldwide spread of a new disease
- An influenza pandemic occurs when a new influenza virus emerges and spreads around the world, and most people do not have immunity. Viruses that have caused past pandemics typically originated from animal influenza viruses.
- The ongoing coronavirus pandemic caused by new strain of coronavirus is an example that cause a variety of diseases including colds to serious illnesses such as SARS and MERS-CoV

Impact on Agriculture and allied fields

- Lockdown
- Labour shortage
- Buying panic
- Affected retail purchasing
- Marketing difficulties
- Issues in supply chain
- Non uniform distribution of inputs and produce
- Difficulties in movement of machinery
- Affected production
- Affected food processing
- Transport difficulties
- Affected food processing

Measures Taken

- Travel Restriction
- Border Closure
- Physical Distancing & Awareness

COVID PANDEMIC
**SYMPTOMS**

- Fever
- Running Nose
- Sore Throat
- Muscle Pain
- Nausea/Vomiting
- Lots of Phlegm
- Headache
- Chills/ Shaking with Chills
- Shortness of Breath
- Loss of Taste or Smell
- Diarrhea
- Chest Pain
- Dry Cough
- Fatigue
- Coughing
- Nausea/Vomiting
- Muscle Pain
- Sore Throat
- Shortness of Breath
- Loss of Taste or Smell
- Diarrhea

**PRECAUTIONS**

- Avoid close contact with sick people
- Stay Home if you are sick and get medical care
- Avoid touching nose, mouth and eyes
- Cover your cough or sneeze with tissue
- Disinfect touched objects oft and surfaces
- Wash your hands oft with soap and water
- Follow physical distancing rules
- Use Aarogya Setu app
- Wear mask and gloves
- Prefer NAMASTE

**CLOSE CONTACT?**

- Household member
- Intimate partner
- Individual who was directly coughed on
- Individual within 6 feet or less of the positive person that did not wear a facemask to block respiratory secretions from contaminating others and the environment
**DECISION TREE FOR THE FOOD INDUSTRY: DURING PANDEMIC**

1. **Employee develops symptoms at home or at work.**
   - **Does the Employee have a severe fever?**
     - **YES**
       - Ask employee to contact local health provider. Contact Department of Health and follow their instructions.
     - **NO**
       - **Does the Employee have a Combination of both cough and shortness of breath?**
         - **YES**
           - **Has the Employee had close contact with positive person (disease) or has cough together with other symptoms.**
             - **YES**
               - **See Symptoms**
               - **See Close Contact**
             - **NO**
               - **Can you work without this employee?**
                 - **YES**
                   - **Talk to your local Department of Health. Ask if employee can work if CDC precautions are followed for the next 14 days since the last exposure.**
                   - **See Precautions**
                 - **NO**
                   - **Allowed to work**
         - **NO**
           - **Has the employee been to work within last 48h of showing symptoms?**
             - **YES**
               - **Has the employee been working in a tightly confined space/area within last 48h of showing symptoms?**
                 - **YES**
                   - **Clean the space and surfaces employee came into contact in the last 48h before continuing production.**
                 - **NO**
                   - **Evacuate and close off the space where employee was working for 24h.**
             - **NO**
               - **Did the other employee(s) develop any symptoms?**
                 - **YES**
                   - **Did the employee have Close Contact with another employee(s) within 48h of showing symptoms?**
                     - **YES**
                       - **See Close Contact**
                     - **NO**
                       - **Is this the only employee that developed symptoms or tested positive for disease in the last 48h?**
                         - **YES**
                           - Consider shutting down the operation for 48h. Ask employees to self-quarantine and self-monitor.
                         - **NO**
                           - Employee allowed to return after approved by the local health provider, Department of Health or after employee has:
                             - **NO** fever for 72h (without the use of medications).
                             - **NO** other symptom when returning to work.
                             - 7 days or more have passed since the symptoms first began.
                 - **NO**
               - **Employee is tested for disease during pandemic. NOT allowed to work until results come back negative.**
               - **Allowed to work**
           - **NO**
             - Ask employee(s) to continue self-monitoring.
2. **Employee is tested for disease during pandemic. NOT allowed to work until results come back negative.**
   - **Does the Employee tests positive?**
     - **YES**
       - **NOT allowed to work**
     - **NO**
       - **Allowed to work**
   - **NO**
     - **Can you work without this employee?**
       - **YES**
         - **Talk to your local Department of Health. Ask if employee can work if CDC precautions are followed for the next 14 days since the last exposure.**
         - **See Precautions**
       - **NO**
         - **Allowed to work**

*Note: Modified from Institute for Food Safety at Cornell University’s*
Reforms to Face Pandemic

- To create smaller, less crowded markets in urban areas.
- Direct access of farmers to consumers.

Alternative Market Channels
- To pull apart the monopolies APMCs,
- Control over unfair trading,
- Direct buying of agri-produce from farmers.
- Buying directly from FPOs need not pay any market fee.

Reforming APMC
- The warehouse receipt system can be scaled up.
- The private sector should be encouraged to open mandis with capping commissions.

Designating warehouses as markets

Logistics transformation
- E-commerce, delivery companies and start-ups need to be encouraged with suitable policies and incentives

Institutionalizing labour
- To avoid the scarcity of farm labour, policies must facilitate easy availability of machinery through state entities, Farmer Producer Organizations (FPOs) or custom hiring centres (CHCs) with suitable incentives.

Expanding institutional offering
- Crop loans should be expanded and facilitated for smooth flow of credit to farmers.
- Agri-inputs – seeds, fertilizers, agro-chemicals, etc. – have to be pre-positioned for easy availability.
OBJECTIVES

Providing financial, technical & business support for upgradation of existing micro food processing enterprises

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