



PANDEMIC PREPAREDNESS PLAN ALANGAD GRAMA PANCHAYATH

MESSAGE OF PRESIDENT

Local Self Government Institutions have a crucial role in safeguarding the health and wellbeing of the community during public health emergencies and pandemics. The experiences from recent outbreaks and pandemics have highlighted the importance of preparedness, coordinated action, timely communication, and community participation in reducing the impact of such events.

This Pandemic Preparedness Plan has been developed to strengthen the preparedness of our Alangad Panchayat to effectively prevent, detect, respond to, and recover from public health emergencies. The plan has been prepared from our experiences in managing COVID-19 pandemic and other public health emergencies and adopts a One Health approach, recognizing the close interconnection between human health, animal health, and the environment in preventing and managing disease outbreaks. It also outlines the roles and responsibilities of various stakeholder departments, institutions, elected representatives, health workers, volunteers, and community organizations in ensuring a coordinated response.

The success of any such effort depends on the active collaboration between the various departments, organisations and the public. Special attention must be given to vulnerable groups including the elderly, children, persons with disabilities, and individuals with chronic illnesses. Our success in mitigating any such outbreaks and pandemics depends on the collective effort of all.

I sincerely appreciate the efforts of the Health Department in coordinating this major initiative involving Local Self Government across Kerala. I also appreciate the Medical Officer and other officials, healthcare workers, technical experts, and stakeholders who contributed to the preparation of this document. I am confident that this plan will serve as an important guide for strengthening local preparedness and resilience against future public health threats.

Let us work together to build a safer, healthier, and more resilient community.

Panchayat President

Alangad Panchayat

MESSAGE FROM MEDICAL OFFICER

Public health emergencies and pandemics remind us that health systems must always remain prepared, responsive, and closely connected with the community. The recent experiences of the COVID-19 pandemic and various other communicable disease outbreaks especially involving newer pathogens have shown that timely preparedness, coordinated response, and strong community participation are essential to reduce health risks and protect lives.

Kerala Health has taken this initiative for the last six months, build capacities of state, district and sub district level functionaries. Addl Chief Secretary conducted series of meetings with DSO, Epidemiologist along with the State Resource Team . This Pandemic Preparedness Plan has been developed to strengthen the readiness of our Grama Panchayat to effectively prevent, detect, and respond to public health emergencies. The plan serves as a framework for coordinated action involving the Health Department and other line departments, organisations, volunteers and other stakeholders at the local self-government level.

The plan follows a One Health approach, recognizing the close relationship between human health, animal health, and the environment in the emergence and spread of diseases. Strengthening disease surveillance, infection prevention and control measures, environmental sanitation, risk communication, and community awareness are all important components of local preparedness. We must also have surge preparedness plans which can be adopted quickly during a public health emergency.

Particular attention must also be given to vulnerable populations including the elderly, children, persons with disabilities, individuals with chronic illnesses, and socially disadvantaged groups who may face greater risks during emergencies. Early reporting, community engagement, and coordinated interdepartmental action are critical for minimizing the impact of outbreaks and ensuring continuity of essential health services.

I sincerely appreciate the leadership and support from our President and other elected representatives and the dedicated efforts of my health team and officers from other departments and community members who contributed to the preparation of this plan. I hope this document will serve as a practical guide for strengthening local resilience and ensuring a timely, effective, and compassionate response during public health emergencies.

Medical Officer

Alangad Panchayat

EXECUTIVE SUMMARY

Family Health Centre (FHC) functions as the primary public healthcare institution serving the population of Alangad Grama Panchayath. The FHC plays a pivotal role in delivering comprehensive, accessible, and affordable healthcare services, with a strong focus on preventive, promotive, curative, and rehabilitative care in accordance with national and state health programmes.

The PHC caters to a predominantly rural population, addressing key public health priorities such as maternal and child health, communicable and non-communicable disease control, immunization, family welfare, adolescent health, and geriatric care. Regular outpatient services, home-based care through field health staff, and outreach activities ensure healthcare coverage even in geographically challenging areas. The institution actively implements national health missions, including the National Health Mission (NHM), National Tuberculosis Elimination Programme, National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS), and other disease surveillance initiatives.

Alangad FHC works in close coordination with the Grama Panchayath, ASHA workers, Anganwadi centres, schools, and community-based organizations to strengthen community participation and improve health awareness. Emphasis is placed on early detection, timely referral, health education, and lifestyle modification to reduce disease burden and improve overall health outcomes.

Despite constraints related to infrastructure, manpower, and increasing service demand, the PHC continues to enhance service delivery through effective planning, data-driven decision-making, and community engagement. Strengthening facilities, upgrading digital health systems, and expanding preventive services remain key focus areas for future development.

Overall, Alangad Family Health Centre stands as a vital institution in safeguarding public health and improving the quality of life of the residents of Alangad Grama Panchayath

LIST OF ABBREVIATIONS

LSGD/LSGI	Local Self Government Department / Local Self Government Institution
BMO	Block Medical Officer
IDSP	Integrated Disease Surveillance Programme
NDMA	NATIONAL DISASTER MANAGEMENT AUTHORITY
PPE	PERSONAL PROTECTIVE EQUIPMENT
ICMR	INDIAN COUNCIL OF MEDICAL RESEARCH
CD	COMMUNICABLE DISEASES
NCD	NON-COMMUNICABLE DISEASES

TABLE OF CONTENTS

	3
INTRODUCTION	9
● Background of the PPP	9
LSGD AT A GLANCE	9
INTEGRATED HEALTH INFRASTRUCTURE MAP OF ALANGAD PANCHAYAT	10
GENERAL PROFILE OF THE LSGI'S	12
Background of the LSGI	12
Demographic and Vulnerable Population	13
Clinical Vulnerability	15
INFRASTRUCTURE & RESOURCE INVENTORY	16
Health Facility Directory & Basic Capacity in the LSGD	16
Private Clinics	17
Healthcare Education & Training Institutions	17
Specialized Services & Emergency Inventory	18
Oxygen & Diagnostic Capacity	19
Diagnostics facility mapping at the LSGI level	19
Laboratory Identification & Basic Details	20
Social and Community Infrastructure for surge plan	20
Human resources	22
Community & Support Cadre	23
Community Organizations	24
Administrative & Emergency Services	24
Information regarding resources	25
ONE HEALTH & ENVIRONMENTAL SURVEILLANCE	25
Animal & Bird Population	26
Veterinary Infrastructure	27
Veterinary Doctors & Workforce	27

High-Risk Interface Points (Surveillance Sites)	28
Environmental Risk Mapping	29
Disease Seasonality Mapping	30
Vulnerability Mapping	31
EPIDEMIOLOGICAL TRENDS (2021–2025)	31
Disease Burden among human beings (Last 5 Years)	31
*(use the above table data to create the graph/diagram)	32
Seasonal Trend Analysis	32
Outcome-Based Trend Analysis- 2025	36
Transmission Trend- 2025	37
Integrated Disease Hotspot Map (2021–2025)	39
Preparedness and Response Protocol at LSG Level	41
Constitution of One Health Committee	41
Pandemic Response Workforce	42
Activities and Measures before and during Pandemic	43
PHASE 1 - Alert / Preparation	43
PHASE 2 - Active Response	46
Standard Screening Protocol	47
PHASE 3 - Surge Capacity	56
Conversion of Community Facilities	56
CONCLUSION	57
RECOMMENDATIONS	58
ANNEXURE	59
1. IMPORTANT PHONE NUMBERS	59

INTRODUCTION

- **Background of the PPP**

- LSGD at a glance

LSGD AT A GLANCE

- Geographical boundaries with political map (based on latest delimitation)
- Baseline data
- Ward division -

Ward	Houses	Populati on	Migrants	Wells	Hot spots	Ed. Institutio ns	Hosp pvt/govt.
24	14406	52863	1184	8871	21	14	9

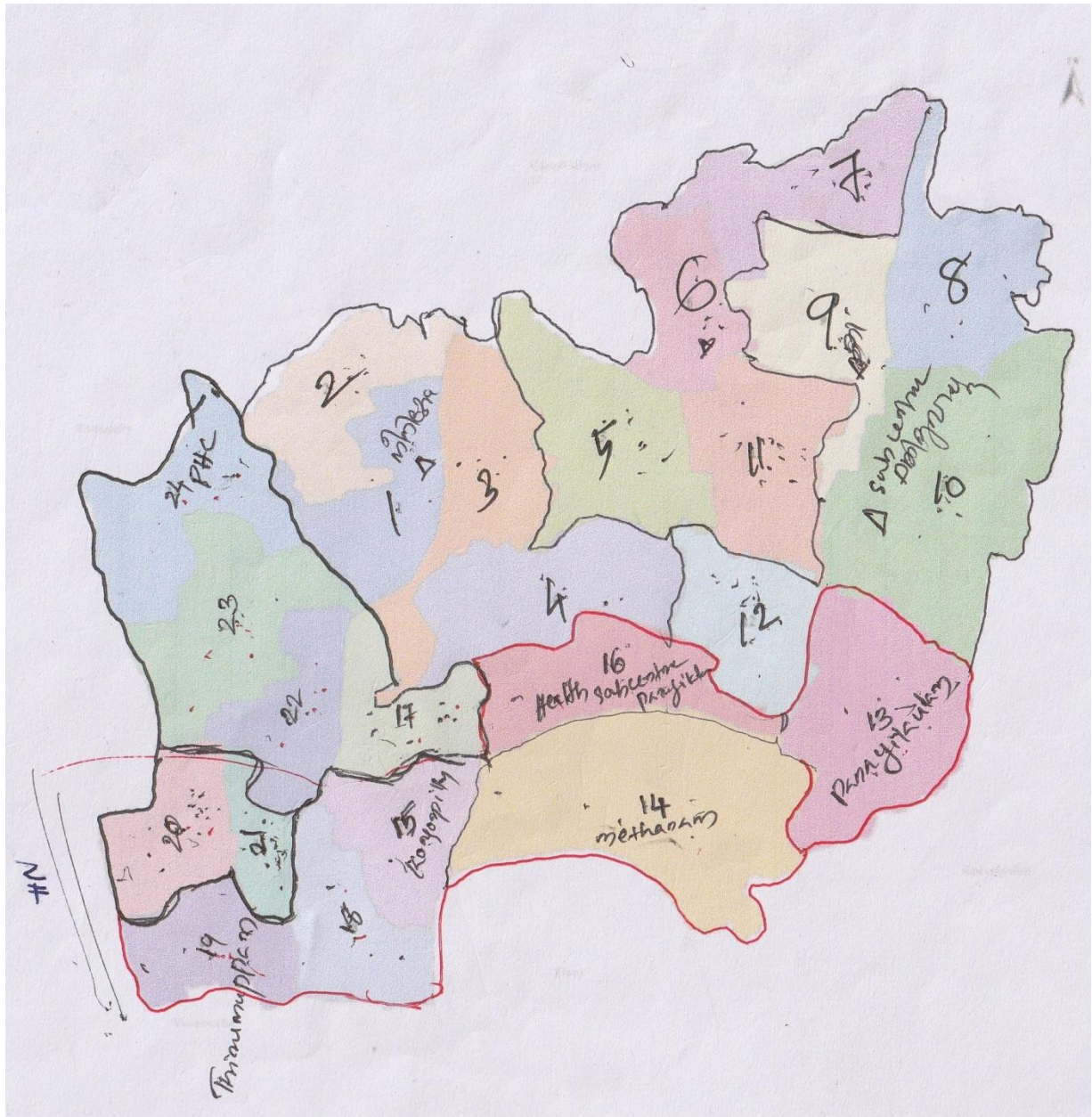
- Risk stratification among wards in the context of Communicable diseases and hazards
- Major Roads/rivers
- Major establishments with geospatial mapping
- occupational groups, socio cultural groups, migration & mobility patterns
- *Vulnerability mapping*
- Disaster prone areas (geographic vulnerability)

Maps - ward-based (Mention source also)

1. Geographical boundaries - ward boundaries map
2. Health infrastructure map
3. roads and rivers map
4. major establishments map
5. disaster-prone areas map
6. hotspot map - CD & disasters

INTEGRATED HEALTH INFRASTRUCTURE MAP OF ALANGAD

PANCHAYAT



Health Infrastructure Map

GENERAL PROFILE OF THE LSGI'S

Background of the LSGI

Alangad_Grama Panchayat is situated in the Alangad Block Panchayth of Ernakulam district, Kerala. The geographical landscape of the Panchayat is predominantly low-lying, characterized by extensive paddy fields (Kole lands) and a dense network of rivers, canals, and backwaters. This unique terrain plays a significant role in shaping the local microclimate and poses distinct challenges to transportation, emergency response, and service delivery, particularly during monsoon seasons and flood events.

The Panchayat is administratively divided into multiple wards, with a population largely dependent on traditional livelihoods. Agriculture—especially paddy cultivation—fishing, coir and coconut husk processing, and allied activities form the backbone of the local economy. In recent years, tourism-related activities and service-sector employment have also shown gradual growth. The area hosts a diverse workforce, including a notable presence of migrant labourers, particularly in construction, agriculture, and allied sectors.

From a public health and disaster management perspective, Alangad LSGI has historically been vulnerable to seasonal flooding, waterborne diseases, and vector-borne illnesses such as Dengue and Leptospirosis. The severe floods experienced during recent years, including the 2018 flood disaster, significantly impacted life, livelihoods, and infrastructure within the Panchayat. These recurring emergencies have underscored the importance of strengthening local preparedness, response mechanisms, and inter-departmental coordination.

In this context, the development of a localized, data-driven Auxiliary Infrastructure and Logistical Resource Map is essential to support effective planning, timely emergency response, and sustainable development initiatives. Such mapping enables the Panchayat to identify critical resources, improve accessibility during disasters, and enhance overall resilience of the community.

Table 1: Background of LSGD

Description	Details
Name of LSGI	Alangad
Type (GP/Municipality / Corporation etc.)	Grama Panchayath
Block	Alangad
District	Ernakulam

Table 1: Background of LSGD

Description	Details
Number of wards	24
Total area (sq. km)	17.85 sq. Km
Population(Projected)	52863
Population density	persons/sq km
Terrain (coastal/low-lying/backwaters/foothills, etc.)	Low- lying Area
Number of rivers passing through LSGI	1
Number of water bodies in the LSGI	8
Number of educational institutions	14
Factories / small-scale industries	5
Flood-prone wards	0
Landslide-prone wards	0
Death Management and Disposal Facilities (mortuaries/crematorium, including electric)	Crematorium
Auditoriums/Marriage halls/convention centres/community halls	9

Demographic and Vulnerable Population

Understanding the demographic composition and vulnerable population groups is essential for pandemic preparedness. Children, elderly, economically deprived families, migrant workers, and

socially vulnerable groups are at increased risk during public health emergencies due to higher exposure, limited access to services, and dependency on public systems..

Description		Details (in numbers)
DEMOGRAPHIC PROFILE		
Total population		52863
Male		25932
Female		26931
Transgender		0
Children under 5		2626
Adolescent		4464
Elderly (>60)		8009
SOCIAL/LIVELIHOOD VULNERABILITY		
Previous EPEP family		40
BPL family		324
Tribal communities		14
Migration	Immigrant	1284
	Emigrant	2671
Socio-economically deprived		40
Fisher folk		36
SC Community		4516
ST Community		14

Graphs: Population pyramid (if possible) for seeing if your LSGI has a high "dependency ratio" (lots of children and elderly compared to working adults).

Clinical Vulnerability

Certain population groups need priority healthcare & are at higher risk of severe illness, complications, and mortality during pandemics. Patients with chronic diseases, those requiring regular medical care, and individuals with mobility or functional limitations face challenges in accessing timely care during emergencies. Mapping these groups helps in prioritizing continuity of treatment, medicine stock planning, oxygen support, referral transport, and targeted home-based care.

Description	Details in numbers
Pregnant women	84
Lactating mothers	164
Bedbound patients	73
Patients under palliative care other than bedbound	164
Patients on Haemodialysis	19
Patients on CAPD	0
Cancer patients (currently on treatment)	91
Haemophilic patients	0
Mentally challenged	36
Differently abled	26
Diabetic patients	3725
Hypertensive patients	4107
TB patients	11

Major Festivals & Events specific to the LSGI (with the possibility of a public gathering)

Sl. No.	Name of festival	Month detailing the periodicity
1	Kunnepalli Thirunal, Thiruvallur Temple Festival, Alangad Church Festival, Pazhamthodu Fest	January, March, December, December

INFRASTRUCTURE & RESOURCE INVENTORY

Health Facility Directory & Basic Capacity in the LSGD

This section provides an overview of the healthcare infrastructure available within the LSGD area. It outlines the distribution and basic capacity of health facilities that form the backbone of service delivery during routine times and public health emergencies.

Family Health Centres (FHCs) and Community Health Centres (CHCs) generally function as the first point of contact for the community, providing essential outpatient and inpatient services. General Hospitals (GH) and Medical College Hospitals (MCH), where accessible, serve as the main referral centres for advanced diagnostics, specialist care, and critical services during public health emergencies. This inventory helps identify existing strengths, gaps, and potential surge capacity that can be mobilised during a pandemic or disaster.

Table 5. Health Facility Resource Summary								
Sl. no.	Health Facility	Type of Facility (MCH/GH/CHC/FHC/SC etc.)	Contact Number	Total beds	ICU Beds	Oxygen-Support ed Beds	No. of Ventilator Support Beds	No. of ambulances
Government Healthcare Facilities								
	FHC ALANGAD	FHC	0484-2512711	0	0	0	0	0
	GOVT AYURVEDA	CLINIC	9633148232	0	0	0	0	0
	GOVT HOMOEOPATHY	CLINIC	7356390550	0	0	0	0	0
Private Healthcare Facilities								
AYUSH Healthcare Facilities								

Private Clinics

Private clinics are an essential part of pandemic preparedness, as they are often the first place people seek care when symptoms begin. In many communities, private clinics manage a significant share of outpatient visits and therefore play a critical role in early case detection, timely referrals, and disease surveillance. Having an up-to-date understanding of where these clinics are located, the services they provide, and how they are linked to the public health system helps ensure that no cases are missed during an outbreak. It also allows health authorities to engage private practitioners more effectively for reporting, risk communication, and coordinated response, strengthening the overall capacity of the health system to manage public health emergencies.

Table 6. Private Clinic Resource Summary

Sl No.	Name of Clinic	Registered (Y/N)	Clinic (General / Specialty)	Specialty (if any)	Address	Contact Number	Diagnostic Facility (Y/N)	Ambulance Linkage (Y/N)
1	Medicare Multyspecialty Family clinic	YES	General	NA	Chirayam	9497028950	NO	YES
2	Kongorppilly Medical Centre	NO	General	Na	Kongorppilly	9207808060	NO	YES
3	Neericode Medical Centre	NO	General	NA	Neericode	8304077297	NO	YES
4	Alangad Medical Centre	YES	General	NA	Alangad	9846062238	NO	YES
5	Neo Clinic	NO	General	NA	Malikampediaka	7510483001	NO	YES

Healthcare Education & Training Institutions

This section tracks the educational infrastructure available, which is vital for human resource planning in the health sector.

Category of Institution	Govt	Private	AYUSH	Total
Medical Colleges	0	0	0	0
Nursing Colleges	0	0	0	0

Category of Institution	Govt	Private	AYUSH	Total
Dental Colleges	0	0	0	0
Para-medical / Allied Health	0	0	0	0
Pharmacy Colleges	0	0	0	0

Specialized Services & Emergency Inventory

This section provides a detailed view of the specialized medical resources available to the community, focusing on emergency response and critical care capabilities. This table tracks the vital assets required for managing severe illnesses and emergencies across Government, Private, and AYUSH sectors.

Item	Govt	Private	AYUSH	Total
Hospital beds	0	0	0	0
Oxygen-generating systems(Y/N)				
Oxygen-supported beds(Numbers)				
Ventilator-supported beds				
ICU beds				
Burns units				
Blood centres				
BLS ambulances				
ALS ambulances				
Dialysis facilities				
Dispensaries				
Medical store				
Industrial establishments(Medium-scale industries/small-scale industries establishments to whom we can depend in a worst-case scenario)				

Oxygen & Diagnostic Capacity

Monitoring **oxygen and diagnostic capacity** is a critical component of public health preparedness, ensuring that the LSGD can handle both chronic care and sudden surges in respiratory or infectious diseases.

Name of Health Facility	Oxygen-generating System (Y/N)	Backup Oxygen Source (Y/N)	Diagnostic Facilities Available(Y/N)				
			Lab	USG	X-ray	CT/MRI	RT-PCR
Government Healthcare Facilities							
Fhc Alangad	N	Y	Y	N	N	N	N

Diagnostics facility mapping at the LSGI level

The diagnostic capacity of Alangad **G.P** represents the "intelligence network" of our healthcare system. The speed and accuracy of disease identification depend entirely on the distribution and technical level of these facilities.

Item	Govt	Private	AYUSH	Total
General labs	1	8	0	9
Microbiology labs	0	0	0	0
RT-PCR labs	0	3	0	3
USG units	0	0	0	0
CT/MRI units	0	0	0	0
Research labs	0	0	0	0
Labs of other departments that can be repurposed	0	0	0	0

Laboratory Identification & Basic Details

Sl. No.	Name of Laboratory	Ownership (Govt / Private / Academic)	Address	Contact No.	24×7 Services (Yes/No)	NABL / Govt Approved (Yes/No)
1	FHC ALANGAD	GOVT	FHC ALANGAD	7034963007	8	YES
2	ModiTech Diagnostic centre	PVT	Kongorppilly	9645912228	10	YES
3	Kongorppilly sahakarana medical lab	pvt	kongorppilly	9947671443	10	YES
4	Sahakarana medical lab panayikulam	pvt	Panayikulam	9947671443	10	YES
5	DDIC Scan & diagnostic	Pvt	malikampedik a	9388615143	10	YES
6	Neericode Medical lab	PVT	Neericode	9846532152	8	YES
7	Shakarana medical lab Neericode	PVT	Neericode	8089112292	8	YES
8	DDRC, Neericode	PVT	Neericode	9778424858	8	YES

Social and Community Infrastructure for surge plan

This table serves as our **logistics and shelter inventory**. By mapping these locations, quickly we can identify where to house displaced citizens, where to set up temporary medical clinics, and how to manage the deceased with dignity during a crisis.

Category	Total Count	Ward	Est. Capacity (Persons)	Contact details
Educational Institutions				
Anganwadis	38	24	38	9400237416
Schools	16	16		
Colleges	0	0		NA
Healthcare Educational Institutions				
Medical colleges (Govt/Private)	0	0		NA
Nursing colleges (Govt/Private)	0	0		NA
Dental colleges (Govt/Private)	0	0		NA

Paramedical institutes (Govt/Private)	0	0		
Community Gathering Spaces				
Community halls				
Auditoriums	8	8		
Religious buildings				
Vulnerable Group Support Facility				
Destitute homes	0	0		
Elderly homes	0	0		
LSGD owned other buildings	0	0		
Mass Fatality Management (MFM) Infrastructure				
Mortuary	0	0		
Crematorium	Govt. crematorium	Alangad		

*refer annexure 1 for contact details

Human resources

This section focuses on the **human capital** available within the LSGI. In any emergency—be it a pandemic, flood, or industrial accident—infrastructure is only as effective as the people operating it.

Medical & Clinical Personnel

This table tracks the "Frontline" providers responsible for diagnosis, treatment, and clinical management. Narrative sentence: eg., "Total health workforce: 450 personnel, with 60% in government facilities serving as primary surge capacity." A detailed directory with the contact numbers of all workers is maintained (**Annexure in 1**).

Cadre	Govt (No.)	Private (No.)	Total
Doctors—Modern Medicine	3	6	9
Doctors – AYUSH	1	0	1
Doctors – Veterinary	1	0	1
Doctors – Dental	0	4	4
Nursing officers	2	3	5
Lab technicians	2	4	6
Optometrist	0	1	1
Pharmacists	2	3	5
Psychologists	0	0	0
Counsellors	0	2	2

Public Health & Field-Level Workforce

These individuals are the backbone of surveillance, maternal-child health, and decentralized care.

Cadre	Health services	Municipal common services	Total
HS (Health Supervisors)	0	0	0
HI (Health Inspectors)	1	0	1

Cadre	Health services	Municipal common services	Total
LHS (Lady Health Supervisor)	0	0	0
LHI (Lady Health Inspectors)	vacant	0	0
JPHN (Jr Public Health Nurses)	5	0	5
JHI (Jr Health Inspectors)	4	0	4
MLSP (Mid-Level Service Providers)	4	0	4
Palliative Nurses	1	0	1
RBSK Nurses	1	0	1
PRO	0	0	0
Epidemiologist	0	0	0
Data Manager	0	0	0

Community & Support Cadre

This group represents the surge capacity of the LSGI—people who can be called upon for logistics, rescue, and specialized support.

Cadre	Number
ASHA Workers	26
AWW (Anganwadi Workers)	38
Emergency Medical Volunteers (Trained)	32
Kudumbashree	24
MNREGS	24
Purusha Swayam Sahaya Sangham	12
Ex-Servicemen	8

Cadre	Number
Retired Police Officers	9
NCC/NSS Volunteers	12
Red Cross volunteers	0
One Health Community Volunteers	24
One Health Community Mentors	24

Community Organizations

This section details the presence of community-based organisations (CBOs), non-governmental organisations (NGOs), faith-based organisations (FBOs), Kudumbashree Self-Help Groups (SHGs), and Ayalkootams within the Local Self-Government Institution (LSGI). These groups enhance grassroots mobilization, resource distribution, and support networks crucial for pandemic response and community resilience.

Category	Total Count
NGOs	2
Religious based organizations	3
Foreign based organizations	0
Sports Club/youth clubs	3
Kudumbashree SHGs	24
Ayalkootams	360
Political organizations	3
Residential organizations	5

Administrative & Emergency Services

This section outlines the availability of key non-health emergency support services and infrastructure within the LSGI, which are essential for effective pandemic preparedness and response. These facilities support law enforcement, disaster response, water supply, logistics, mobility, and community-level interventions during public health emergencies.

Category	Total Count	Contact details
Police Stations	1	04842671101
Fire & Rescue Stations	0	
Water Pumping Points	0	
Public Distribution System (PDS)	0	

Information regarding resources

The availability of essential transport and support resources plays a quiet but critical role in saving lives. Equipment such as ambulances, mobile mortuaries, amphibian ambulances, and motorized boats ensures that patients, samples, and healthcare teams can move swiftly—even in flooded, remote, or difficult terrains. Heavy vehicles like JCBs, cranes, tractors, and torus lorries support logistics, waste management, emergency infrastructure, and rapid conversion of spaces into care or isolation facilities. Taxis, four-wheel-drive vehicles, and trucks help maintain continuity of essential services, reach vulnerable populations, and support home-based care and supply delivery.

Means of transportation	Total Count
JCB	4
Crane	1
Heavy Trucks	18
Tractor	6
Ambulances	8
Mobile mortuaries	5
Boats	3
Taxi service	47

Note: For specific details regarding vehicle owners and contact information, please refer to **Annexure [X]**.

ONE HEALTH & ENVIRONMENTAL SURVEILLANCE

The One Health method integrates environmental, animal, and human health to enable proactive pandemic preparedness. Panchayat-level surveillance needs to be improved in order to detect and treat zoonotic and environmentally generated diseases early. Surveillance is strengthened through

systematic assessment of animal populations, veterinary infrastructure, poultry and slaughter facilities, inter-sectoral coordination, and specialised tools like avian influenza seasonality mapping using GIS in previous outbreaks to enable predictive alerts and ward-specific sampling to support effective pandemic preparedness in high-risk areas like _____.

Animal & Bird Population

Mapping animal and bird populations at the Panchayat level is essential for identifying and prioritising zoonotic disease hazards like rabies, avian influenza (H5N1), leptospirosis, anthrax, and Nipah-like spillover occurrences. Risk classification, targeted surveillance, vaccination planning, and early epidemic detection made feasible by comprehensive population mapping all enhance One Health-based pandemic preparedness.

Category	Item	Estimated Population	Wards
Animal Population	Livestock (Cattle/Goats/Buffalo)	820	All wards
	Pet Animals (Dogs/Cats)	2100	All wards
	Stray Dog Population	178	All wards
	Pig Farms (Number of heads)	0	0
	Small Units (Sheep / Goats – clustered)	0	0
Bird Population	Poultry Units (Birds)	3	All wards
	Poultry- (FOWL)	1	All wards
	Wild/Migratory Birds (Observed)	0	0
	Crow Mortality Events (Reported)	0	0

The main risk of zoonotic diseases in _____ is concentrated in **Wards.....**, which is explained by the high density of pig farms, cattle congregation areas, and poultry units. The stray dog population in **market areas, fish landing sites, bus stations** continues to be a substantial problem for rabies surveillance and bite prevention. There is a considerable risk of

avian influenza introduction and amplification during **November - December** due to the seasonal presence of migratory and resident water birds near **ponds/ canal / river / backwater / paddy field**. Clusters of pig farms and animal shelters vulnerable to flooding further raise the risk of leptospirosis and other zoonoses mediated by the environment, especially during monsoon floods.

Veterinary Infrastructure

Veterinary institutions are a core pillar of One Health surveillance, enabling early zoonotic disease detection through vaccination, investigation of unusual animal illness or deaths, sample collection, and timely outbreak reporting. A well-mapped and responsive veterinary network strengthens coordination with human health and LSGI systems, ensuring rapid response during zoonotic events and pandemics.

Facility Type	Name of Facility	Ownership Govt / Pvt	Location(Ward No)	Contact number
Veterinary Dispensary	1	govt	4	9847353310
Veterinary Hospital / Polyclinic	0	0	0	0
Private Veterinary Clinics	0	0	0	0
Mobile / Emergency Vet Service (incl. night services)	0	0	0	0
Pet Homes / Animal Shelters	0	0	0	0
Slaughterhouse-linked Veterinary Inspection Unit	0	0	0	0

Veterinary Doctors & Workforce

Early detection, diagnosis, reporting, and reaction to animal illness epidemics depend on the availability and accessibility of qualified veterinary specialists. By identifying unusual animal morbidity or mortality promptly, collecting samples promptly, and coordinating efficiently with human health and LSGI systems—especially during zoonotic outbreaks and pandemic-prone situations—a clearly defined veterinary workforce enhances One Health surveillance.

Category	Number Available	Type (Govt/Pvt)	Contact number
Government Veterinary Doctors	1	GOV	9847353310
Private Veterinary Doctors	0	0	0
Livestock Inspectors	4	GOV	9847353310
Para-veterinary Staff / Attenders	0	0	0
Contract / On-call Veterinary Support (if any)	0	0	0

High-Risk Interface Points (Surveillance Sites)

High-risk interface points for zoonotic disease surveillance in ALANGAD Grama Panchayath include *wetland–livestock–human contact zones, backyard poultry farms, cattle sheds near water bodies, fish markets, and areas of high human–animal interaction such as community slaughter points and migratory bird congregation sites*. These are the primary surveillance sites where zoonotic spillover risks are elevated.

Type of Habitat	Type of High risk interface	Geographical vulnerability
Wetlands & Backwaters	0	0
Backyard Poultry Farms	0	0
Cattle Sheds near Water Bodies	0	0
Fish & Meat Markets	0	0
Community Slaughter Sites	0	0
Migratory Bird Congregation Areas	0	0
Rodent-Infested Grain Storage	0	0

Category	Total Count	Key Locations (wards)
Poultry Farms	0	0
Backyard / Clustered Poultry Units	0	0

Duck Rearing Units (open water access)	5	1,2,6,7,9
Slaughterhouses/ Slaughter Points	18	2,,24,22,23
Meat/Fish Markets	2	15,9
Live Bird Sale Points	3	2,1,15
Cattle Markets / Weekly Animal Fairs	0	0
Pet Shops / Breeders	3	3
Animal Shelters / Pet Homes	0	0
Waste Disposal Sites near Animal Units	0	0

Environmental Risk Mapping

Environmental risk mapping identifies monsoon/flood hotspots for vector-borne (dengue, chikungunya), water-borne (leptospirosis, diarrhoea), and zoonotic diseases in Kerala's wetlands. Systematic surveillance supports early warnings, targeted interventions, and Panchayat pandemic preparedness.

Waterborne exposure: Flood-prone areas and stagnant water bodies facilitate *leptospira survival*, raising leptospirosis risk.

Traditional practices: Informal slaughter and fish markets lack standardized hygiene, creating *spillover opportunities*.

Risk Factor	High-Risk Wards	Key Locations	Risk Level (High/Med/Low)
Flood-prone areas	0	0	0
Water bodies/wetlands	0	0	0
Solid waste accumulation	0	0	0
Animal waste disposal issues	0	0	0
Rodent infestation zones	0	0	0

Industrial effluent discharge	0	0	0
Construction sites / abandoned buildings	0	0	0
Poor drainage/blocked canals	0	0	0
Drinking water source contamination risk	0	0	0

Disease Seasonality Mapping

1, **Flooding & waterlogging** → amplifies leptospirosis, malaria, diarrheal diseases.

.

2, **Migratory bird influx (Nov–Feb)** → avian influenza risk.

3, **Mosquito breeding cycles** → vector-borne disease peaks in monsoon.

4, **Agricultural practices** → close human–animal contact in paddy fields.

Disease	Peak Risk Season	Key Drivers	High-Risk Locations	Surveillance Focus
Avian Influenza	0	0	0	0
Leptospirosis	monsoon	workers	3	3
Dengue/Chikungunya	Monsoon	General	5	5
Acute Diarrheal Diseases	0	0	0	0
Rabies	0	0	0	0
Anthrax (rare)	0	0	0	0

Vulnerability Mapping

Vulnerability mapping pinpoints high-risk populations, occupations, and areas exposed via environment, livelihoods, socio-economics, and poor service access. Paired with environmental/seasonality mapping, it enables risk-based surveillance, targeted actions, and optimal resource use in One Health and pandemic planning.

Vulnerability Factor	High-Risk Wards	Key Groups / Locations	Risk Level
Flood-prone households	0	0	0
Wetland-adjacent communities	0	0	0
Backyard poultry / duck rearing households	0	0	0
Livestock-rearing households	0	0	0
Slaughterhouse & meat market workers	19	0	0
Fisherfolk & fish market workers	11	0	0
Sanitation workers	24	0	0
Daily wage / migrant workers	977	0	0
Elderly & chronically ill populations	288	0	0
Pregnant Women	63	0	0
Children (schools, Anganwadi's)	7289	0	0
Limited access to safe water & sanitation	0	0	0

EPIDEMIOLOGICAL TRENDS (2021–2025)

Disease surveillance is the systematic collection, analysis, and interpretation of health data for planning, implementation, and evaluation of public health practice. This section presents the disease surveillance profile of the LSGI based on routine reporting systems and outbreak investigations to identify priority diseases, seasonal patterns, and emerging public health threats.

Disease Burden among human beings (Last 5 Years)

Analysis of disease-wise data for the last five years helps identify persistent public health problems, emerging diseases, and changes in disease burden. This information supports prioritisation of prevention, preparedness, and response activities at the Panchayat level.

Disease	2021	2022	2023	2024	2025	Trend(Increasing/Stable/Decreasing)
Dengue	11	43	89	75	41	Decreasing

Leptospirosis	3	4	10	3	11	Increasing
Hepatitis A	0	0	1	13	20	Increasing
Malaria	1	0	0	0	2	Increasing
Scrub Typhus	0	0	0	0	0	Stable
Typhoid	0	2	1	1	7	Increasing
H1N1	0	0	0	18	6	Decreasing
H3N2	0	0	0	0	0	Stable
ADD	25	125	259	140	121	Decreasing
Mumps	0	0	2	21	18	Decreasing
Measles	0	0	0	1	0	Decreasing
Hepatitis B	0	0	4	0	0	Stable
Hepatitis C	0	0	0	0	0	Stable
Tuberculosis	12	24	22	18	17	Decreasing
Leprosy	0	0	0	0	0	Stable
COVID-19	6940	85	17	0	4	Decreasing

*(use the above table data to create the graph/diagram)

Seasonal Trend Analysis

Seasonal analysis helps anticipate surges (e.g. dengue in monsoon, leptospirosis after floods, influenza in cooler months) and plan pre-emptive vector control, stockpiling of IV fluids, and awareness campaigns at Panchayat level.

DENGUE:- Dengue is a major seasonal vector-borne disease strongly associated with rainfall, water stagnation, and increased mosquito breeding during the monsoon period.

Peak: July–November

Dengue – Ward-wise Yearly Distribution (2021–2025)

Ward	Dengue – Ward-wise Yearly Distribution					
	2021	2022	2023	2024	2025	Total
1	1	0	3	1	1	6
2	0	1	4	5	0	10
3	2	1	4	3	2	12
4	2	4	5	5	1	17
5	0	2	5	5	2	14
6	0	0	0	1	6	7
7	2	2	4	3	0	11
8	0	0	3	3	2	8
9	1	2	3	4	2	12
10	0	0	0	1	2	3
11	0	1	7	2	3	13
12	2	3	6	5	1	17
13	4	2	2	8	2	18
14	3	2	3	2	2	12
15	1	1	5	0	2	9
16	1	2	4	2	1	10
17	2	4	4	2	1	13
18	0	3	7	5	1	16
19	0	1	3	3	2	9

20	0	3	4	4	2	13
21	0	4	9	4	6	23

LEPTOSPIROSIS

Leptospirosis cases are closely linked to monsoon rains, flooding, and occupational exposure, particularly in low-lying and waterlogged areas.

Peak: June – August Leptospirosis – Ward-wise Yearly Distribution (2021–2025)

Ward	Leptospirosis – Ward-wise Yearly Distribution					
	2021	2022	2023	2024	2025	Total
1	0	1	0	0	0	1
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	2	0	1	3
5	0	0	0	0	0	0
6	0	0	1	0	1	2
7	0	0	0	0	0	0
8	0	0	0	0	1	1
9	0	0	0	0	0	0
10	0	0	1	2	4	7
11	0	0	1	1	1	3
12	0	1	0	0	1	2
13	2	1	1	0	0	4
14	0	0	0	0	1	1
15	0	0	1	0	0	1
16	1	1	0	0	0	2
17	1	0	1	1	0	3
18	0	1	0	0	0	1
19	0	0	0	0	0	0

20	0	0	1	0	1	2
21	0	1	0	0	0	1

VIRAL HEPATITIS – A Hepatitis A cases are commonly associated with unsafe drinking water, food contamination, and breakdowns in sanitation, often presenting as clusters or outbreaks. Peak: October – December Hepatitis A – Ward-wise Yearly Distribution (2021–2025)

Ward	Hep A – Ward-wise Yearly Distribution					
	2021	2022	2023	2024	2025	Total
1	0	0	0	1	0	1
2	0	0	1	5	3	9
3	0	0	0	2	0	2
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	2	1	3
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	1	0	1
11	0	0	0	0	2	2
12	0	0	0	0	2	2
13	0	0	0	0	4	4
14	1	0	0	0	4	5
15	0	0	0	0	2	2

16	1	0	1	0	0	2
17	1	1	0	0	0	2
18	0	0	0	0	0	0
19	0	0	0	0	1	1
20	0	0	0	3	0	3
21	0	0	0	1	1	2

Outcome-Based Trend Analysis- 2025

Transmission Trend- 2025

For effective management of public health issues, it is important to track the trend of disease transmission mode. It helps identify the population or place at high risk that can be used to predict outbreaks and implement targeted interventions as quickly as possible. Understanding these kinds of trends enables authorities to allocate resources efficiently and change the strategies adequately based on the trend that follows.

Mode of Transmission	No. of cases	No. of Deaths
Vector Borne Diseases	43	0
Water Borne Diseases	141	0
Air Borne Diseases	96	0
Blood Borne Diseases	0	0
Food Borne Diseases	7	0

Vector-Borne Disease

Disease	No. of Cases	No. of Deaths
Dengue	41	0
Malaria	2	0
Chikungunya	0	0

Water Borne Disease

Disease	No. of Cases	No. of Deaths
Cholera	0	0
Typhoid	7	0
Hep- A	20	0
Dysentery	0	0
Amoebiasis	0	0
E- Coli infections	0	0

Air Borne Disease

Disease	No. of Cases	No. of Deaths
Influenza	16	0
H1N1	6	0
TB	17	2
Chickenpox	75	0
Measles	0	0
Covid-19	4	0
Pertussis	0	0
Mumps	18	0

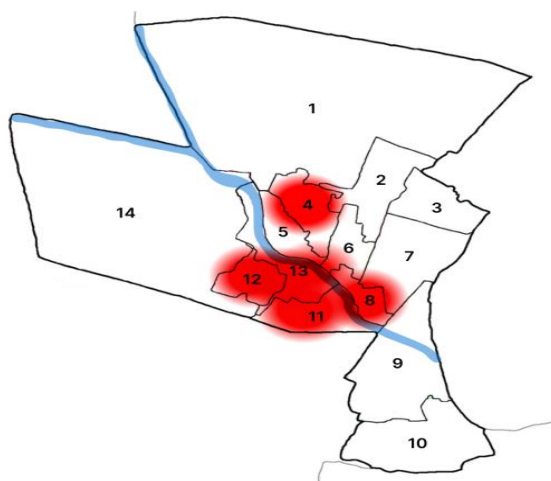
Blood-Borne Disease

Disease	No. of Cases	No. of Deaths
AIDS	0	0
Hep- B	0	0
Hep- C	0	0

Zoonotic Disease

Disease	No. of Cases	No. of Deaths
Rabies	0	0
Leptospirosis	11	0
Avian influenza	0	0
West nile	0	0
Anthrax	0	0
Nipah	0	0
Scrub Typhus	0	0

Integrated Disease Hotspot Map (2021–2025)



Ward No	Dengue Total (2021-25)	Leptospirosis Total (2021-25)	Hepatitis A Total (2021-25)	Mumps (2021-25)	ADD (2021-25)	Total Cases
1	6	1	1	2	37	47
2	10	0	9	1	59	79
3	12	0	2	4	68	86
4	17	3	0	3	57	70
5	14	0	0	4	25	43
6	7	2	0	2	29	42
7	11	0	3	1	32	47
8	8	1	0	2	24	35
9	12	0	0	3	28	43
10	3	7	1	0	31	42
11	13	3	2	3	21	42
12	17	2	2	2	24	47
13	18	4	4	2	30	58
14	12	1	5	3	21	42
15	9	1	2	2	22	36

16	10	2	2	1	26	41
17	13	3	2	1	29	48
18	16	1	0	0	27	44
19	9	0	1	1	29	40
20	13	2	3	2	21	41
21	23	1	2	1	30	57

By overlaying five years of data, we have identified zero 'Red Zone' Wards. These are wards where at least two different categories of diseases (e.g., Dengue and Lepto) recurred in consecutive years. Ward **4** is categorized as the **Highest Priority Hotspot** due to its combination of flood vulnerability and high vector density. Future health infrastructure, such as the proposed **R.O plants** should be prioritized.

Preparedness and Response Protocol at LSG Level

This section describes the operational framework for the LSGI once a pandemic is declared. It explains how the LSGI and health system will move from routine data collection to active response, using a One Health approach.

Constitution of One Health Committee

The LSGD shall constitute a One Health Committee comprising the LSGI President, Medical Officers (Modern Medicine, AYUSH, and Veterinary), the Health Inspector, and the Veterinary Surgeon.

Objective: The One Health Committee coordinates human, animal, and environmental health to prevent and control pandemics.

Sl No	Name	Designation	Department/Institution	Role in Committee	Contact Number
1	Viji Jolly	Panchayat President	LSGD	Chairperson	7025756745
2	Dr Victor Joseph	Medical Officer (PHC/CHC)	Health Dept	Member Secretary	9567057481
3		Veterinary Officer	Animal Husbandry	Member	9847353310
4		Epidemiologist	Health Dept	Member	8848184245
5	Azeem Lebba	Health Inspector/PHN	Health Dept	Surveillance	9847875847
6		ASHA Supervisor	Health Dept	Community link	8157986984
7		ICDS Supervisor	Social Welfare	Vulnerable groups	9400237416
8		Police Station Officer	Police Dept	Law & order	04842671101
9		Ward Councillor Representative	LSGD	Community coordination	8606341145
10		Kudumbashree CDO	Kudumbashree	Community mobilisation	9388178330
11		NGO/Volunteer rep	Civil Society	Support services	

12		Line Department representations			
----	--	------------------------------------	--	--	--

Key Responsibilities:

- Review disease surveillance data (human + animal)
- Conduct ward-wise risk assessment and vulnerability mapping
- Approve quarantine/isolation centre locations
- Coordinate with district for resources (PPE, oxygen, ambulances)
- Periodically review health system surge capacity, including beds, oxygen, human resources, and ambulances.
- Approve and monitor risk communication and community engagement strategies, including rumour management.
- Ensure protection and service continuity for vulnerable groups (elderly, persons with disabilities, dialysis patients, coastal populations).
- Conduct quarterly mock drills
- Monitor equity measures for vulnerable groups

Meeting Schedule:

Quarterly (normal times) | Weekly (outbreak alert) | Daily (pandemic phase)

Pandemic Response Workforce

To ensure a coordinated and timely response during a pandemic, a dedicated Pandemic Response Workforce shall be constituted at the LSG level. The workforce will function under the overall supervision of the One Health Committee and in close coordination with the health authorities. Team-based deployment will enable efficient surveillance, case management, quarantine and isolation management, logistics support, and risk communication. Each team shall have a clearly designated team leader, defined roles, and an identified pool of personnel to allow rapid activation, rotation of duties, and continuity of services during prolonged emergencies.

Total Response Workforce Available: 300 persons

Team Name	Composition	Key Responsibilities	Team Leader
Surveillance and Contact Tracing Team	HI, JHI, JPHN, ASHAs and Volunteers	Case detection, contact listing, home visits, reporting	HI

Case Management Team	Doctors, Nurses, MLSP, Palliative Nurses	Patient care & referral	DOCTOR
Quarantine & Isolation Team	LSGD staff, Volunteers	Facility management	JHI
Psychosocial support			
Logistics & supply chain Team	LSGD staff, Storekeepers, Drivers 3	Supplies & transport [PPE, medicines, oxygen, transport, waste management]	Ward Member
Communication Team	Ward members, Kudumbashree, Youth clubs, AWW workers and other self help groups	IEC, community meetings, countering misinformation	M.O in charge
Transportation	KSRTC, educational institutional buses		
Media Surveillance			
Intersectoral coordination and convergence			
Collaborative surveillance			

All teams shall be activated immediately upon outbreak alert or pandemic declaration and shall report daily to the LSG Incident Commander/Medical Officer, with consolidated reporting to the Block PHC. Duty rosters and alternate personnel shall be maintained to ensure uninterrupted services during staff shortages or prolonged response periods. Team composition and numbers may be revised based on the magnitude of the outbreak and availability of human resources.

Activities and Measures before and during Pandemic

PHASE 1 - Alert / Preparation

Surveillance and Reporting-Enhanced syndromic surveillance:

1. **Data sources for surveillance:**
2. **Event-based triggers (to be monitored and reported):**
3. **Zoonotic and animal health surveillance**
4. **Logistics and Stock Preparedness**
 - Identify and empanel local vendors and define emergency procurement mechanisms in accordance with existing LSGD and Health Department norms.
 - Prepare and maintain an essential logistics checklist covering medical supplies, consumables, and support equipment.
 - Pre-identify secure storage locations for emergency stocks and ensure maintenance of stock registers with regular updating.
 - Finalise emergency transport arrangements, including availability of vehicles and identified drivers for rapid deployment during alerts.
 - Designate a Nodal Officer for Logistics to enable prompt decision-making, coordination, and communication during emergencies.
 - Conduct rapid stock verification and ensure availability of minimum buffer stock, including:
 - PPE kits – numbers
 - Pulse oximeters – _____ numbers
 - Hand sanitizers – _____ litres
 - Masks, gloves, disinfectants – adequate quantity

Identify critical gaps in logistics and immediately communicate requirements to the Block and District authorities for timely replenishment and support. Monitor expiry dates and stock rotation.

➤ **Identification of Quarantine and Isolation Facilities**

- Identify and list suitable buildings for quarantine and isolation (schools, hostels, community halls, etc.).
- Categorise cases as per the severity and allocate to appropriate facilities (for instance, severe cases to classrooms, mild cases to an assembly hall in case of a school).
- Facility readiness checklist needed (beds, toilets, ventilation) etc.
- Find an alternate site if the primary sites are not available or not in use.

- Identify facility managers and support staff
- Prepare basic SOPs for:
 - Admission and discharge
 - Food, water, sanitation
 - Infection prevention and waste disposal
- Ensure availability of basic amenities: water, sanitation, electricity, ventilation, and waste disposal. Prepare a rapid activation plan for these facilities if case numbers increase.

➤ Risk Communication and Community Preparedness

- Disseminate early warning messages on symptoms, preventive measures, and reporting mechanisms. Display IEC materials both in English and the local language in public places and ensure ward-level awareness.
- Sensitize elected representatives and community leaders on preparedness measures.
- Establish a rumour tracking and misinformation response mechanism to identify, verify, and promptly counter false or misleading information.
- Engage trusted local persons (ward members, ASHA workers, religious leaders, teachers, community volunteers) to communicate official public health messages and reinforce correct practices.
- Develop and deploy targeted IEC materials for:
 - Schools and educational institutions
 - Markets and commercial areas
 - Work sites and labour settings
- Conduct community sensitization meetings at the ward level to promote preventive behaviors, address concerns, and strengthen community participation in preparedness and response.

➤ Protection of Vulnerable Groups

Vulnerable populations require priority protection through targeted line-listing, service continuity, and delivery mechanisms.

- Prepare and regularly update **line-lists** of vulnerable populations, including:
 - Elderly persons living alone
 - Persons with disabilities

- Pregnant women
- Migrant workers
- Dialysis patients

The detailed line-lists shall be maintained as **Annexure ____** and updated periodically.

➤ Clinical Dependency Mapping

Develop ward-wise dependency and vulnerability maps to identify households requiring regular support during emergencies. Ensure continuity of essential health services for vulnerable groups, including

- Dialysis services (facility mapping, transport arrangements, and scheduling)
- Continuity of treatment for TB, HIV, and other chronic conditions requiring uninterrupted medication
- Mental health and psychosocial support services

Establish **delivery mechanisms** for food, essential commodities, and medicines to vulnerable households through coordinated action involving ASHAs, JPHNs, Kudumbashree, volunteers, and local administration.

PHASE 2 - Active Response

1. Case Identification and Contact Tracing

Case detection and contact tracing activities will be carried out in coordination with the Health authorities, following disease-specific SOPs and IDSP guidelines.

Field Staff Involved

- Health Inspector (HI)
- Junior Health Inspector (JHI)
- Junior Public Health Nurse (JPHN)
- ASHAs and ASHA Supervisors
- Ward-level volunteers and Kudumbashree members (as required)

2. Screening Checkpoints

Screening checkpoints at high-traffic locations (transport hubs, markets, religious gatherings) for early detection of symptomatic travellers and crowd screening during outbreaks. Potential locations include bus stands, market entry points, and boat jetties, based on local context and risk assessment.

Screening activities will be carried out by trained personnel such as ASHAs, ward members, and volunteers, with support from Health Department staff. Necessary equipment, including non-contact thermometers and appropriate PPE, shall be ensured prior to activation.

Location	Type (Bus stand/Jetty/Market/Railway)	Staff Deployed (ASHAs/Volunteers)	Screening Method	Reporting authority
Bus stand	Transport hub	One JHI One ASHA One health Mentors	1.Swab Collection. 2. Blood smears collection (RDT) 3.Thermal Scanners	Surveillance Nodal Officer in control room
Market entry	Market	One JHI One ASHA Male health volunteers	1.Swab Collection. 2. Blood smears collection (RDT) 3.Thermal Scanners	Surveillance Nodal Officer in control room
Boat jetty	Water transport	One JHI One ASHA Male health volunteers	1.Swab Collection. 2. Blood smears collection (RDT) 3.Thermal Scanners	Surveillance Nodal Officer in control room

Standard Screening Protocol

1. TEMPERATURE CHECK (Non-contact)	2. VISUAL SYMPTOMS (Cough/Fever/Breathless)	3. TRAVEL HISTORY (Last 14 days)
↓	↓	↓
4. QUICK RISK ASSESSMENT High Risk → Test/Quarantine Suspect → PHC Referral	5. ACTION TAKEN Normal → Allowed IEC + Mask provided	

The screening protocol shall include temperature screening, observation for visible symptoms, and inquiry regarding recent travel or exposure history. Individuals identified as suspects during screening shall be immediately referred to the nearest PHC/FHC for further evaluation, testing, and appropriate action as per prevailing guidelines.

3. Pandemic Control Room

The Pandemic Control Room (PCR) serves as the central nerve center for real-time coordination, data aggregation, decision support, and communication during outbreaks. It consolidates information from all LSGD teams, health facilities and community sources to enable rapid response decisions.

Control Room Infrastructure and Location

Primary Location: _____ALANGAD_____ Panchayath Office.

Backup Location: Community Hall in ____ALANGAD_____ G.P.

Health System Control Room Framework

The PCR is organized into **seven functional pillars** to ensure no aspect of the response is overlooked:

1. *Rapid Response Team (RRT)*

- Provides immediate intervention during emergencies, clusters, and field alerts.
- Coordinates urgent actions such as case investigation, contact tracing, isolation, and inter-facility referrals.

2. *Data Management & Analytics Team*

- Collects, validates, and manages key health system indicators (cases, tests, beds, HR, supplies).
- Analyzes data trends, generates projections, and supports evidence-based decision-making for local authorities.

3. *Human Resource Deployment Team*

- Allocates healthcare staff efficiently based on workload and need
- Ensures adequate and equitable workforce distribution across facilities

4. Laboratory Surveillance Team

- Oversees diagnostic testing coordination, sample transport, and timely reporting of results.
- Monitors lab indicators (testing volume, positivity rate, turnaround time) for early detection of outbreaks

5. Vaccination Cell (If Required)

- Plans and executes vaccination campaigns, including micro-planning and session scheduling.
- Tracks coverage, identifies gaps, and coordinates corrective actions with field teams and outreach services.

6. Infrastructure & Patient Occupancy Team

- Monitors facility capacity, earmarked beds, oxygen and critical care resources across all linked facilities.
- Ensures optimal patient distribution and referral management using updated bed-status and resource data.
- BMW

7. Communication team

8. Logistics and supply chain

9. Transportation (interfacility & emergency transport)

10. Media surveillance Call centre

11. Management of the deceased

12. Intersectoral coordination and convergence

Key Control Room Team

The Control Room Team coordinates all pandemic response activities within the LSGD and serves as the single command and communication hub during activation. It integrates information, field actions, logistics, and policy execution across all participating departments and health facilities.

Role	Name	Designation	Contact Number	Responsibility
In-charge/Nodal Officer	NAVEEN RAJAN	SECRETARY	8943742314	Overall coordination, decision-making, and reporting to the District level.
Data Entry Operator	HARI SANKAR	TECH ASST	9995469633	Managing the line list, updating dashboards, and tracking testing results.

Communication Officer	AZEEM LEBBA	H I	9847875847	Handling the public helpline, coordinating ambulance dispatch, and contact tracing calls.
Logistics Coordinator	DHANYA LEKSHMI	PHARMACIST	9495462087	
Technical Support (IT/Data)	ABIN NAZEER	JHI	9995258172	

SOP for alert escalation/trigger point with mapping of responsibilities.

Key Points:

- The Control Room shall be staffed with a designated In-charge, data entry personnel, and communication staff with clearly defined roles and shift arrangements.
- It shall maintain updated records on daily monitoring indicators including new cases, persons under active quarantine, and hospital bed occupancy.
- All reports and situation updates shall be shared daily with the Block and District Surveillance Unit.
- The Control Room shall act as a single point of contact for coordination with response teams, health institutions, and other departments.
- Contact details of the Control Room shall be widely communicated to field staff and stakeholders during activation.

Daily Monitoring Indicators

To ensure timely decision-making and effective response, the following key indicators shall be monitored and updated on a daily basis by the Pandemic Control Room:

1. Epidemiological Indicators:

New cases reported today, Total active cases, Test Positivity Rate (TPR), Case Fatality Rate (CFR)

2. Surveillance Indicators:

Persons under home quarantine, High-risk contacts identified, Fever, ILI, SARI or other symptoms (syndromic surges), Travellers (symptomatic or high-risk arrivals), Animal husbandry surveillance (zoonotic alerts, unusual animal deaths,

poultry/bird flu signals), Mortality surveillance (excess deaths, unexplained fatalities, verbal autopsy reports)

3. Logistics and Infrastructure Indicators:

Hospital / CFLTC beds occupied, Oxygen cylinders/concentrators available, Ambulances on standby

4. Alert Findings

The following table outlines category-specific **trigger points (red flags)** from surveillance indicators and corresponding immediate actions for the Pandemic Control Room. These enable rapid response to alert findings like testing anomalies, positive cases exceeding thresholds, clusters, and WGS reports.

Category	Trigger Pophint (Red Flag)	Immediate Action
Clusters	Geographical or facility-based: 5+ cases linked to one location (office, school, street).	Declare a micro-containment zone; perimeter control and active case finding.
Testing	Sudden drop in testing volume / delay in reporting / unusual testing trends	Review the sample collection process, address lab bottlenecks, deploy additional testing teams, and notify the District Lab.
Lab	Test Positivity rate increases	Increase testing sites in that ward.
Hospital	>80% Oxygen bed occupancy	Activate backup/CFLTC beds.
Travel	Cluster of cases from a single flight/train or high-risk arrival group.	Trace all passengers in adjacent seats; implement mandatory institutional quarantine.
Animal	Mass poultry/wildlife death or unusual sickness	Notify Animal Husbandry, sample the area, and dispatch RRT for environmental sampling and zoonotic check.
Mortality	Sudden spike in home deaths or brought-in-dead (BID) cases	Audit the deaths and Active Case Search drive
Additional investigations like	Detection of a Variant of Concern (VOC) or Variant of	Implement strict micro-containment; update clinical

Whole Genome Sequencing (WGS)	Interest (VOI)	protocols to match variant severity.
-------------------------------	----------------	--------------------------------------

4. Communication of Public Health Information

A Community Communication Hub shall be established to ensure timely, accurate, and consistent dissemination of information during a pandemic. The Hub will function under the coordination of Nodal officers of the control room and act as the nodal point for public communication, risk messaging, and community engagement. **It will support dissemination of official advisories, promote preventive behaviors, address rumors and misinformation, and ensure that messages reach all sections of the population through trusted local channels and leaders.**

Channel	Responsible Person	Contact
Ward-level announcements	Manikandan	8075639984
Social media	Abin nazeer	9995258172
Local Cable TV/Radio	Azeem lebba	9847875847

Key communicators

- All messages disseminated through the Hub shall align with advisories issued by the Health Department and District authorities.
- Community leaders shall be sensitized to support behavior change, reduce stigma, and counter misinformation.
- Special efforts shall be made to reach vulnerable and hard-to-reach populations using locally appropriate communication methods.

Rumor Tracking: A designated volunteer will monitor local social media/WhatsApp groups daily to identify misinformation and issue official clarifications via the Communication Hub.

5. Coordination with District/State Authorities & Other Organisations

Effective coordination with Block, District, and State authorities is essential to ensure timely reporting, technical guidance, and uninterrupted supply of essential resources during a pandemic. The LSG shall establish clear communication channels, designate responsible officers, and adhere to prescribed reporting timelines to support coordinated public health action and efficient resource mobilisation.

Key Details:

- **Nodal Officer for Reporting:**
- **Contact Number:**

Reporting Schedule and Protocols:

To Whom	What to Report	Frequency	Nodal Person
Block PHC	Complete Situation Report (Cases, Quarantine, Beds, Screening, Deaths)		
District IDSP Unit	Outbreaks/Clusters/Unusual Events (>5 cases same ward)		
Veterinary Officer	Animal health events/Zoonotic alerts		
State Cell	Zoonotic cross-sector events		

Supply Chain Coordination

The LSG shall coordinate closely with Block, District, and State authorities (KMSCL) to ensure uninterrupted availability of essential goods, medical supplies, and logistics during a pandemic. Supply requirements shall be assessed regularly based on case load and communicated promptly to the appropriate authorities for timely replenishment.

Key Points:

- Maintain updated contact details of District and Block nodal officers for health logistics, oxygen supply, ambulances, and essential medicines.
- Submit timely indent requests for PPE, testing kits, medicines, oxygen, and other critical supplies through prescribed channels.
- Monitor stock levels at LSGD facilities, quarantine/isolation centres, and field teams through daily stock registers and dispensing logs to prevent shortages.
- Coordinate with District authorities, Karunya/Neethi medical shops, and local purchase committees for funds allocation and emergency procurement.
- Ensure regular monitoring of dispensing registers at all facilities to track usage, expiry, and pilferage—shortages being a perennial issue requiring proactive weekly audits.
- Activate surge procurement protocols during high caseloads, leveraging local purchase powers under LSGD funds alongside state supplies.

Resource Inventory and Contacts

Resource Category	Source (District/State/Private)	Contact
PPE Kits/Masks/Gloves	KMSCL	
PPE Kits/Masks/Gloves	Local Vendors	
Oxygen Cylinders/Concentrators	KMSCL	
Medicines/Antivirals	KMSCL	
Medicines/Antivirals	Neethi Shops	
Test Kits (RTPCR/Rapid)	KMSCL	

Collaboration with NGOs, PPP, and CSR

To augment government efforts during a pandemic, the LSG shall collaborate with NGOs, voluntary organisations, and private sector partners through public–private partnerships and Corporate Social Responsibility (CSR) initiatives, in coordination with District authorities.

Key Points:

- Engage NGOs and community-based organisations for community outreach, awareness, and support to vulnerable populations.
- Leverage CSR support for procurement of medical equipment, PPE, oxygen concentrators, food kits, and sanitation materials, as permitted.
- Ensure all collaborations align with government guidelines and are routed through approved administrative and financial procedures.
- Maintain transparency and documentation for all external support received and utilised.

Organization	Type	Support Offered	Contact Person
Youth Clubs/Student Unions	CBO		

Interdepartmental Coordination

Coordination among departments during a pandemic shall be ensured through regular review meetings convened by the LSGD President. These meetings will provide a structured platform for sharing situational updates, assessing resource availability, resolving operational gaps, and taking joint decisions to ensure a coordinated and timely response.

Department	Representative	Key Role	Contact
Health (PHC)	Staff Nurse : JINI	Case management	9562566981
Veterinary	Veterinary Surgeon:	Animal surveillance	
ICDS	Supervisor: Sindhu	Nutrition support	9400237416
Education	Head Teacher:	School coordination	
Police	S I	Containment enforcement	_8075344619 _____
Water Authority	____AE____	Water supply	____04842623 206_____
LSGD Engineering	____AE____	Quarantine infrastructure	____830195 2547_____

PHASE 3 - Surge Capacity

Phase 3 is activated when there is a rapid increase in cases, high test positivity rates, or when existing health facilities and quarantine arrangements approach saturation. The focus of this phase is to expand isolation capacity, augment clinical care services, and mobilise additional resources through district and state support mechanisms.

Conversion of Community Facilities

To manage increased case load, the LSGD shall activate additional isolation facilities by repurposing identified community infrastructure such as community halls, auditoriums, schools, hostels, or other suitable buildings.

Name of facility	Facility Type	No. of Buildings	Ward	Surge Capacity (Beds)	Nodal Person

- Recovery and rehabilitation phase
- Recovery

- Damage & impact assessment
- Restoration of health services
- Rehabilitation of affected population
- Psychosocial & mental health support
- Disease surveillance during recovery phase
- Environmental cleanup & sanitation
- Livelihood restoration
- Community engagement & confidence building
- Documentation & after-action review
- Lessons learned & best practices
- Health system strengthening
- Policy revision & preparedness enhancement
- Research

CONCLUSION

Additional points

- tech support
- relief based commodities
- ham reading operators
- hazard vulnerability mapping
- Kseb & other power source
- HR specific responsibility

RECOMMENDATIONS

1. Strengthening Healthcare Infrastructure

- Establish a primary health response unit within the Panchayat with trained staff.
- Ensure availability of basic medical supplies (masks, sanitizers, PPE kits, oxygen cylinders).
- Create tie-ups with nearby hospitals in _____ for emergency referral and transport.

2. Community Awareness & Education

- Conduct regular awareness campaigns on hygiene, vaccination, and preventive measures.
- Use local communication channels (community radio, WhatsApp groups, notice boards) to spread verified information.
- Train volunteers to act as health ambassadors in each ward.

3. Emergency Response & Coordination

- Form a Pandemic Preparedness Committee at Panchayat level including health workers, ward members, and NGOs.
- Develop a clear action plan for lockdowns, quarantine, and distribution of essentials.
- Maintain a database of vulnerable groups (elderly, differently-abled, chronically ill) for targeted support.

4. Supply Chain & Food Security

- Identify and support local suppliers and farmers to ensure uninterrupted food supply.
- Create community kitchens during emergencies to serve vulnerable populations.
- Stockpile essential commodities in Panchayat-run outlets for crisis periods.

5. Digital Preparedness

- Promote digital platforms for telemedicine consultations.
- Use Panchayat's website/social media for real-time updates on health advisories.
- Encourage online grievance redressal to reduce crowding in offices.

6. Training & Capacity Building

- Organize mock drills for pandemic response in schools, offices, and public spaces.
- Train Panchayat staff and volunteers in first aid, infection control, and crowd management.
- Collaborate with NGOs and health departments for capacity-building workshops.

7. Long-Term Resilience

- Integrate pandemic preparedness into the Panchayat Development Plan.
- Allocate a dedicated budget for health emergencies.
- Encourage community participation in planning and monitoring preparedness measures.

MOCKDRILL SCENARIOS

ANNEXURE

1. IMPORTANT PHONE NUMBERS

Phone numbers and particulars of persons responsible for providing guidance, assistance, and support for pandemic preparedness operations may be provided here in a manner that allows easy reference at a glance. The information recorded here could be exhibited elsewhere at the time of emergencies. LSG institutions shall give special attention to collect and record the above data of persons and institutions who/which are supposed to give technical and co-ordination support to reduce the impact of pandemic.

1.1. Details of grama panchayat/municipality/corporation wards

Sl.No	Name of the ward	Ward number	Name of the ward member	Contact number
1	Neercode west	1	P c Jayan	7025944947
2	Neercode east	2	P k nirmala	9847216695
3	Panchayath head quarters	3	VB Jabbar	9846839419
4	Koduvazhanga south	4	Sreebhadra velayudhan	9495366867
5	Koduvazhanga north	5	Jose gopurathinkal	9142058430
6	Iravipuram	6	Paul k t	7034068159
7	kottappuram	7	Maya vinayakumar	9495012540
8	Malikampeedika	8	Mini piyus	9349966458
9	alanged	9	Viji jolly	7025756745
10	thiruvallloor	10	Sunil thiruvallloor	9349983649
11	kunnel	11	Resmi biju	6238061822
12	Panayikkulam west	12	P k suresh babu	9142034001
13	Panayikkulam	13	Ameer ali	9846947512
14	methanam	14	Afeela sumith	9526190136
15	Olanad east	15	M A benny	9847877240
16	CHIRAYAM	16	HASEENA SHIHAB	9387036363
17	KONGORPILLY EAST	17	XAVIER PEREPPARAMPIL	9744418853
18	OLANAD	18	SEBASTIAN V J	9847717154
19	THIRUMUPPAM	19	ANNA ANSLY	9947920232
20	PAZHAMPILLY	20	ROBIJU	8111914293
21	KONGORPILLY WEST	21	NIJITHA K S	9567236243
22	HSS WARD	22	BINNY SIMMICHEN	9995704691
23	KARINGAMTHURUT H SOUTH	23	RADHAMANI JAYASINGH	9388178330
24	KARINGAMTHURUT H NORTH	24	NISHAD DEVASSY	8606341145

1.2. Other important phone numbers of grama panchayat/municipality/corporation area

Sl. No.	Name	Contact number
1.	NAVEEN RAJ ,SECRETARY	8943742314
2.	SANJAY HAKKIM ASST SECRETARY	9846166766
3.	KAVYA PANCHAYATH H I	7736455483
4.		
5.		
6.		
7.	Excise department,NEETHU MANOHARAN INSPECTOR,N.PARAVUR	0484 2443187
8.	Forest department	8129666439

1.3. Important offices of grama panchayat/municipality/ corporation

Sl.No	Name of the office	Contact person	Contact number
1.	Village Office	Village Officer	0484 2512324
2.	Agriculture Office	Agriculture Officer	
3.	Animal Husbandry Office	Animal Husbandry Doctor	
4.	Police Station	Police Officer	04842671101
5.	BSNL Office	Officer	
6.	Block Office	Officer	
7.	KSEB Office	Officer	04842672030
8.	Fisheries Office	Officer	
9.	Fire and Rescue	Officer	

1.4. Health Services

Sl. No	Name of the hospital/institution	Location	Phone number
1.	Government hospitals/PHC	Alangad	
2.	Private hospitals	9,14,15,2	
3.	Clinical laboratories	21,8,9,15,16,	
4.	Chemist/pharmacy	0,	
5.	Blood donors	16	
6.	Other language experts (Bihari, Hindi, Bengali, Asamees)	110	

1.5. Veterinary Services

Sl. No	Name of the Clinic	Name of the Surgeon/Doctor	Place/location	Phone number
1	Govt.Veterinary Hospital	Dr Agith	neericode	9847353310

1.6. Helpline numbers

Helpline	Phone number
Police	8075344619
Fire and Rescue	04842545500
KSEB	9496009024

1.7. Public and Private Schools Contact details

S.No	Name of School	Institution type	Phone number
1	LF LP SCHOOL OLANAD	Aided	9847582234
2	LF HSS PANAYIKULAM	Aided	6238825570
3	VISWADEEPTI VIDYALAYA, CHIRAYAM	Private	9947451686
4	LF LP SCHOOL, PANAYIKULAM	Govt	9847156407
5	ALHUDA PUBLIC SCHOOL, PANAYIKULAM	Private	8943040622
6	LF LP SCOOOL, PANAYIKULAM	Private	8156984277

7		Private	
8		Govt	
9		Govt	
10			

1.9. Anganwadi Contact Details

SL No	Name of Anganwadi Teachers	Phone number
1	SHABY T S	9961816804
2	GREESHMA	9744493476
3	BINDU JOY	9961027895
4	BOBY E K	7736066809
5	VALSALA K L	8111840625
6	BEENA BEEVI	8714836046
7	SEEMA M S	7025963317
8	JUDIT V V	9388671850
9	LEENA C P	9946128653
10	ZEENATH K M	9605493217
11	SUDAMANI M P	9895658881
12	SREEJA SALIMRAJ	9847573897
13	JOSEMARY K A	8590398745

14	MONEE AL	9562593291
15	MARY VILSY C V	9947176146
16	REMA C K	9947209836
17	AJI V K	9526159320
18	LETHA K S	9188151037
19	SREEKALA E K	9048121249
20	SUMI VARGHESE	9074267045
21	STABY VARGHESE	9946529687
22	PREETHY T G	9497793880
23	GIRIJADEVI M S	8907929448
24	SMITHA K M	9349109197
25	PREETHA K V	9645350348
26	SUBITHA C A	9497243663
27	LETHA K C	9605089757
28	SEENA M N	8078193359
29	SEEMA MOL M R	9746068819
30	SHARI A P	9947367233

31	ANITHA C A	8137957478
32	GIRIJA T V	9947260667
33	SOFI	9048551470
34	SHYKUTTY E S	9446055687
35	DEEPA S	9745397101
36	SOSAMMA O A	9744948989
37	LALITHA M T	9747864748
38	T V SHIJIMOL	9847494270

1.12. Information regarding resources

Means of transportation	Name of Owner	Phone Number
Heavy Trucks		
Tractor		
Ambulances		
Boats		
Taxi service	Thilakan	9961296045

Annexure 1: LSG Baseline Data Collection Format

A. Baseline data

Sl. No.	Indicator / Field	Baseline Data	Source / Remarks
1	Name of LSG	ALANGAD	
2	District	ERNAKULAM	
3	Block / Taluk	N PARAVUR	
4	Type of LSG (Gram Panchayat / Municipality / Corporation)	GRAMA PANCHAYATH	
5	Area (sq. km)	17.7 SQ KM	
6	No. of wards	24	
7	GIS boundary file available	(Yes/No)	
8	Key contact person & phone	0484-2512267	

B. Demography

Indicator / Field	Baseline Data	Source / Remarks
Total population	52863	
Males	25995	
Females	26868	
Transgender population	0	
Age distribution (<5, 5–14, 15–59, ≥60)	2626,3848, 39456,6933	
No. of households	42576	
Population density (persons/sq.km)	1829	
No. of migrant workers	977	FROM FIELD
Major occupational groups	4	

C. Vulnerable Populations & Social Risks

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	No. of elderly (≥60)	6933	
2	No. of persons with disability	284	
3	No. of bedridden persons	73	
4	No. of chronic disease cases (DM/HTN/COPD/CKD etc.)	186	
5	Pregnant women (current estimate)	84	
6	Children <5 years	2626	
7	Tribal population (if any)	0	

8	Fisherfolk / coastal vulnerable groups (if any)	0	
9	Urban slums / unnotified settlements (if any)	0	
10	Homeless population	0	
11	Orphanages / old age homes (number & capacity)	1	
12	Hostels / prisons / shelters (number & capacity)	0	
13	Poverty / BPL estimate	3214	
14	Food insecurity hotspots	0	
15	Any history of stigma/discrimination issues (Yes/No)	NO	

D. Health System & Service Readiness

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	No. of health facilities in LSG (PHC/CHC/TH/DH/Private)	6	
2	PHC/Family Health Centre details (name, location)	FHC ALANGAD, KARINGAMTHU RUTH	
3	Subcentres / Health & Wellness Centres (number)		
4	Private clinics / hospitals (number)	5	
5	Labs available (public/private)	12	
6	Availability of ambulance services (Yes/No, number)		
7	Availability of isolation/quarantine facilities (Yes/No, details)	NO	
8	Cold chain facilities (Yes/No, details)	YES	
9	Stockpile space available (Yes/No)	NO	
10	PPE / mask / sanitizer availability plan (Yes/No)	YES	
11	Surveillance staff available (JHI/JPHN/ASHA count)	35	
12	Existing emergency referral pathways (Yes/No)	YES	

E. Points of Entry & Mobility

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Bus stands / depots (number)	0	
2	Railway stations (number)	0	
3	Boat jetties / fishing harbours (number)	0	
4	Ports / airports nearby (specify distance)	15	
5	Major highways/roads passing through	NH 66, NH 47	
6	Border crossings (state/district)	0	
7	Major markets / weekly markets	0	
8	Tourism hubs / major event venues	0	
9	Schools/colleges with hostels (number)	0	
10	Factories / large workplaces (number)	0	

F. Water, Sanitation & Hygiene (WASH)

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Major drinking water sources (piped / wells / borewells / springs)	KWA SUPPLY WATER	
2	No. of public wells	51	
3	No. of households with piped water connection	12786	
4	Water quality testing routine (Yes/No)	YES	
5	Common contamination risks (flooding, salinity, industrial waste)	NIL	
6	Open defecation free status (Yes/No)	NO	
7	Solid waste management system (Yes/No)	YES	
8	Bio-medical waste disposal mechanism (Yes/No)	YES	
9	No. of public toilets	1	

10	Handwashing stations in public places (Yes/No)	YES	
----	--	-----	--

G. Zoonotic Risks & One Health

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Livestock population (cattle/goats/pigs/poultry) – estimates	4700	
2	No. of dairy farms / poultry farms / pig farms	3	
3	Slaughterhouses / meat shops (number)	11	
4	Animal markets (Yes/No, details)	0	
5	Veterinary dispensaries (number)	1	
6	History of zoonotic outbreaks (rabies, leptospirosis, avian flu etc.)	NIL	
7	Stray dog population management measures (Yes/No)	NO	
8	Rodent infestation hotspots (Yes/No)	NO	
9	Wetlands / waterlogged areas prone to leptospirosis	NO	
10	Bat roosting areas / caves / fruit orchards (if any)	NO	
11	Human-animal interface hotspots (farms near residences)	NIL	

H. Climate & Disaster Risks (Pandemic Amplifiers)

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Flood-prone wards (list)	NIL	
2	Landslide-prone wards (list)	NIL	
3	Cyclone/sea surge risk (Yes/No)	NIL	
4	Heatwave risk zones (Yes/No)	NIL	
5	Waterlogging areas (list)	NIL	
6	Shelter homes / relief camps (number, capacity)	3, 1500	
7	Past disaster displacement history	NIL	
8	Disruption to water supply/transport common (Yes/No)	NO	

I. Critical Infrastructure & Logistics

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Schools (number)	16	
2	Anganwadis (number)	38	

3	Colleges (number)	0	
4	Community halls (number)	9	
5	Places of worship with large gatherings (number)	10	
6	Large markets / shopping areas (number)	0	
7	Warehouses / cold storages (number)	14	
8	Telecom/mobile network coverage gaps (Yes/No)	NO	
9	Power outage frequency (high/medium/low)	NO	
10	Availability of generators in key facilities	YES	

J. Risk Communication & Community Networks

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Ward-level rapid response teams (Yes/No)	YES	
2	Jagratha samithis / committees active (Yes/No)	YES	
3	Kudumbashree presence and strength (number of units)	28	
4	Volunteer network (number, coverage)	56	
5	Community-based surveillance mechanisms (Yes/No)	YES	
6	IEC dissemination channels (WhatsApp groups, community radio, PA systems)	YES	
7	Rumour tracking mechanisms (Yes/No)	YES	
8	Languages spoken / literacy considerations	YES	
9	Vulnerable groups communication strategy available (Yes/No)	YES	

K. Preparedness Planning & Governance

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	LSG emergency plan available (Yes/No)	YES	
2	Pandemic preparedness plan available	YES	

	(Yes/No)		
3	Incident Command System identified (Yes/No)	YES	
4	Rapid procurement mechanism available (Yes/No)	YES	
5	Emergency fund available (Yes/No, amount)	YES	
6	Past outbreak response experience (Yes/No, details)	YES	
7	Intersectoral coordination mechanism (Health, Police, LSG, Veterinary, Education)	YES	
8	Mock drills conducted in last 12 months (Yes/No)	NO	
9	Training coverage for staff/volunteers (Yes/No)	YES	

L. Surveillance & Data Systems

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Digital reporting tools used (e.g., DHIS2, portals)	YES	
2	Availability of line-listing format (Yes/No)	YES	
3	Contact tracing team identified (Yes/No)	YES	
4	Mapping of high-risk households available (Yes/No)	YES	
5	Testing sample transport mechanism (Yes/No)	YES	
6	Reporting timeline adherence (good/average/poor)	GOOD	
7	Data sharing between departments (Yes/No)	YES	
8	Availability of dashboard for monitoring (Yes/No)	YES	

M. Additional Notes & Observations

Sl. No.	Indicator / Field	Baseline Data (Value / Description)	Source / Remarks
1	Key challenges perceived by LSG	NIL	
2	Top 5 high-risk wards (reason)	NIL	
3	Any unique local risks (industrial pollution, refugee camps, etc.)	NIL	

4	Recommendations for preparedness strengthening		
---	--	--	--