

2020

PROVINCIAL PROFILES

BAGMATI PROVINCE



Surveillance, Point of Entry
and Rapid Response



Risk Communication and
Community Engagement



Laboratory Capacity



Operations Support
and Logistics



Infection Prevention and Control &
Clinical Management



Partner
Coordination



Government of Nepal
Ministry of Health and Population



**World Health
Organization**
Nepal

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SURVEILLANCE, POINT OF ENTRY AND RAPID RESPONSE

SURVEILLANCE, POINT OF ENTRY AND RAPID RESPONSE

COVID-19: How things stand in Nepal's provinces and the epidemiological significance of the coronavirus disease

1.1 BACKGROUND

The provincial epidemiological profile is meant to provide a snapshot of the COVID-19 situation in Nepal. The major parameters in this profile narrative are depicted in accompanying graphics, which consist of panels of posters that highlight the case burden, trend, geographic distribution and person-related risk factors.

The major parameters in this profile narrative are depicted in accompanying graphics, which consist of panels of posters that highlight the case burden, trend, geographic distribution and person-related risk factors.

1.2 METHODOLOGY

The major data sets for the COVID-19 situation updates have been obtained from laboratories that conduct PCR tests. The information covers individuals who approached the laboratories for tests, those recommended through medical advice, and those referred by ward and municipality public health personnel as part of the Case Investigation and Contact Tracing (CICT) or active case search. Information was supplemented by active CICT teams and call centres engaged in following up on cases and contacts. These data are uploaded or endorsed by the Province-level Health Emergency Operations Centre (PHEOC).

1.3 FINDINGS

The cases and deaths attributed to COVID-19 in the different provinces have been captured by time, place and person characteristics. They are comprised of cases and their time trends; geographic location and spatial movement; affected age groups; and

incidence/prevalence of the cases, both as aggregate reported numbers and population denominations. In addition, some insights over evolving patterns—such as changes in age at risk and proportion of females in total cases—were also captured, as were the trends of Test Positivity Rates and distribution of symptom production, as well as cases with comorbidity.

1.4 MAJOR OBSERVATIONS AND TRENDS

Nepal had very few cases of laboratory-confirmed COVID-19 till about the middle of April, which is when the Nepali New Year is celebrated. Over a period of four months—ending in the middle of July—cases increased, peaked and went down to make up the first wave of the pandemic. These cases consisted of expats returning home by air or through land crossings; during this time, PCR tests were undertaken at less than 20 laboratories across the country.

The middle of July witnessed the next wave. This time, cases were much higher than projected; the health care infrastructure was overwhelmed, with a huge burden being placed on the public health system. The total number of laboratories in the country had reached 70 by then, a large chunk of it in the private sector, mostly located in and around Kathmandu. There were more symptomatic cases in the second

wave. Hospital case load increased; distinctions between normal and designated COVID hospitals were removed, and there was major dependency on intensive care infrastructure and ventilator support.

11 percent from Karnali, and 11427 or 5.1 percent from Sudurpaschim. The following pages have a detailed analysis of these cases.

1.5 SITUATION SUMMARY

The number of COVID-19 cases in Nepal by PCR positivity stood at 2,22,287 as of 23 November 2020. A total of 25421 cases, or 11.4 percent, came from Province 1; 19715 or 8.8 percent from Province 2; 121861 or 54.8 percent from Bagmati; 13306 or 5.9 percent from Gandaki; 24559 or

1.6 WAY FORWARD

This epidemiological extract has been prepared to help understand the COVID-19 situation better and in a contextual manner for each of the provinces. It can be used by public health personnel and decision-makers as a ready reference to support public health and social measures at the municipality, district and provincial levels.

Map 1: PCR Positive Case and Deaths

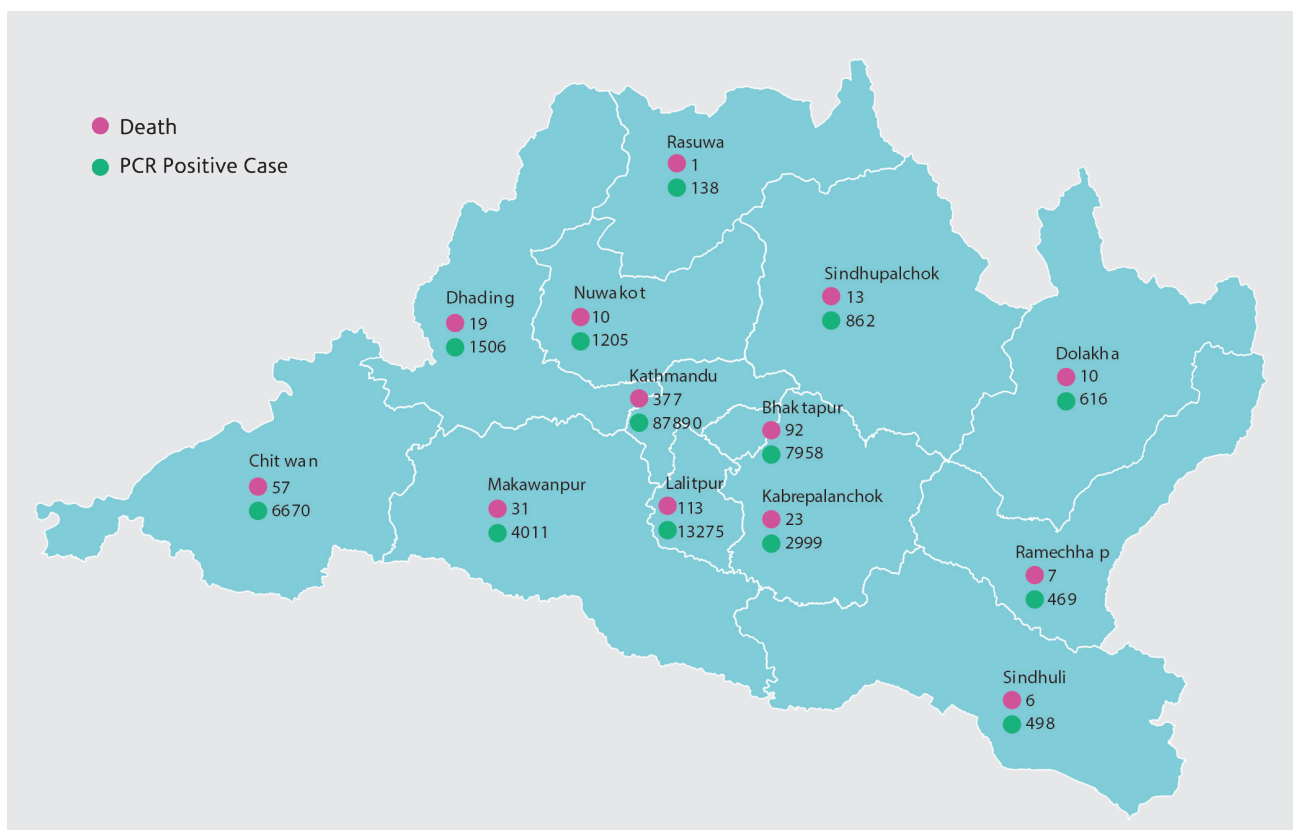
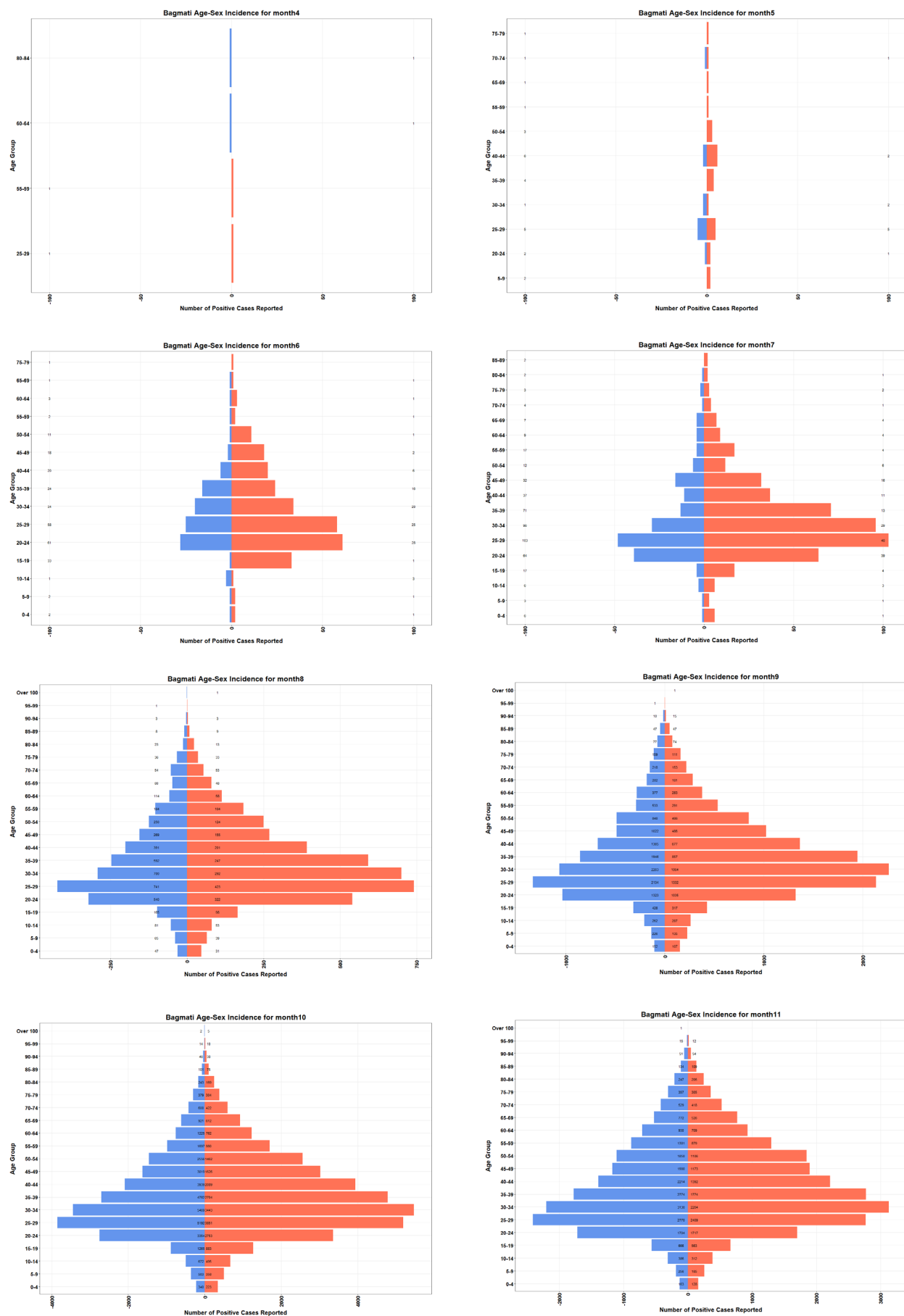


Figure 1: Changing Age-Sex pattern of cases – (April – November)

Sex: ■ Female ■ Male



Map 2: Cumulative Case Incidence by Month – April 2020



Map 3: Cumulative Case Incidence by Month – May 2020



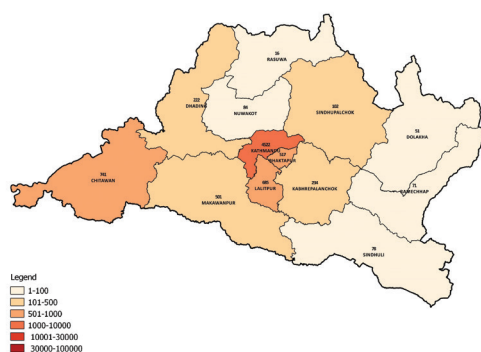
Map 4: Cumulative Case Incidence by Month – June 2020



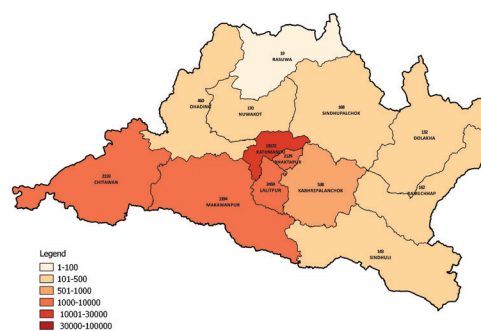
Map 5: Cumulative Case Incidence by Month – July 2020



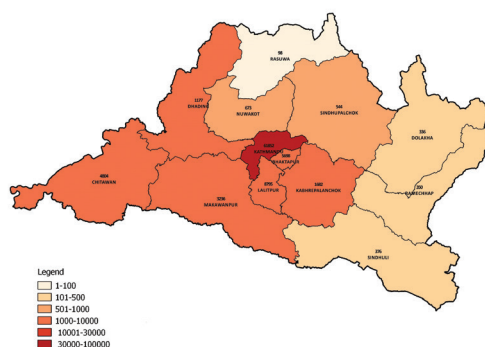
Map 6: Cumulative Case Incidence by Month – August 2020



Map 7: Cumulative Case Incidence by Month – September 2020



Map 8: Cumulative Case Incidence by Month – October 2020



Map 9: Cumulative Case Incidence by Month – November 2020

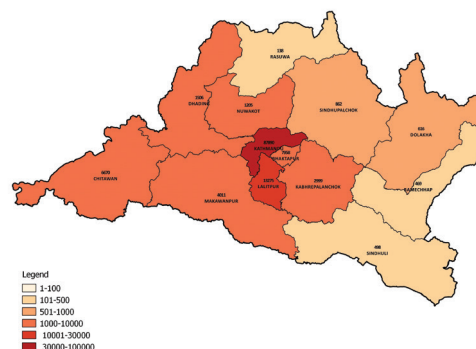
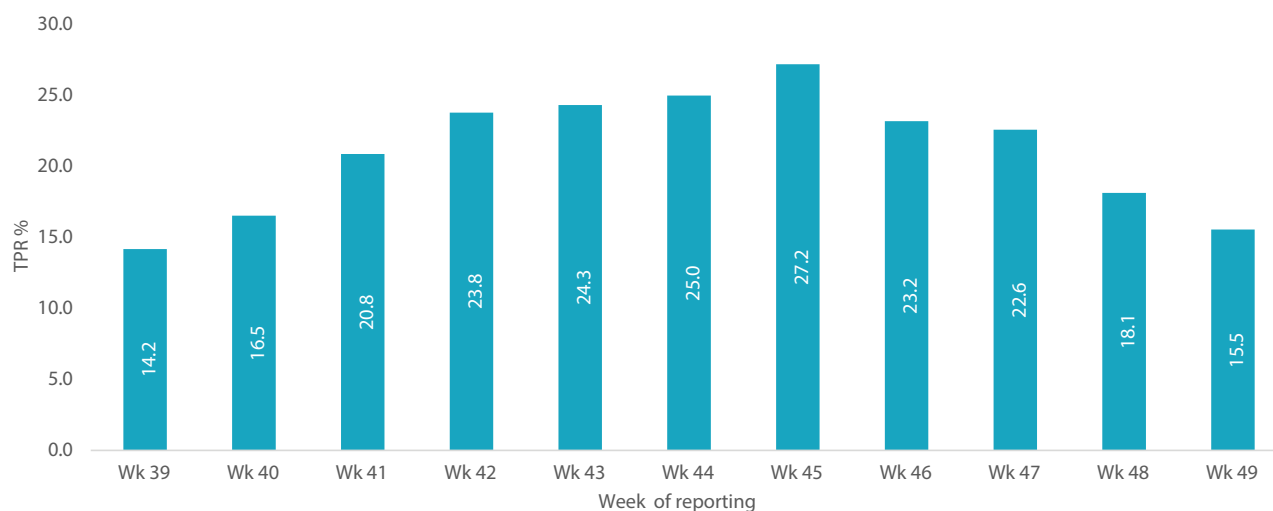
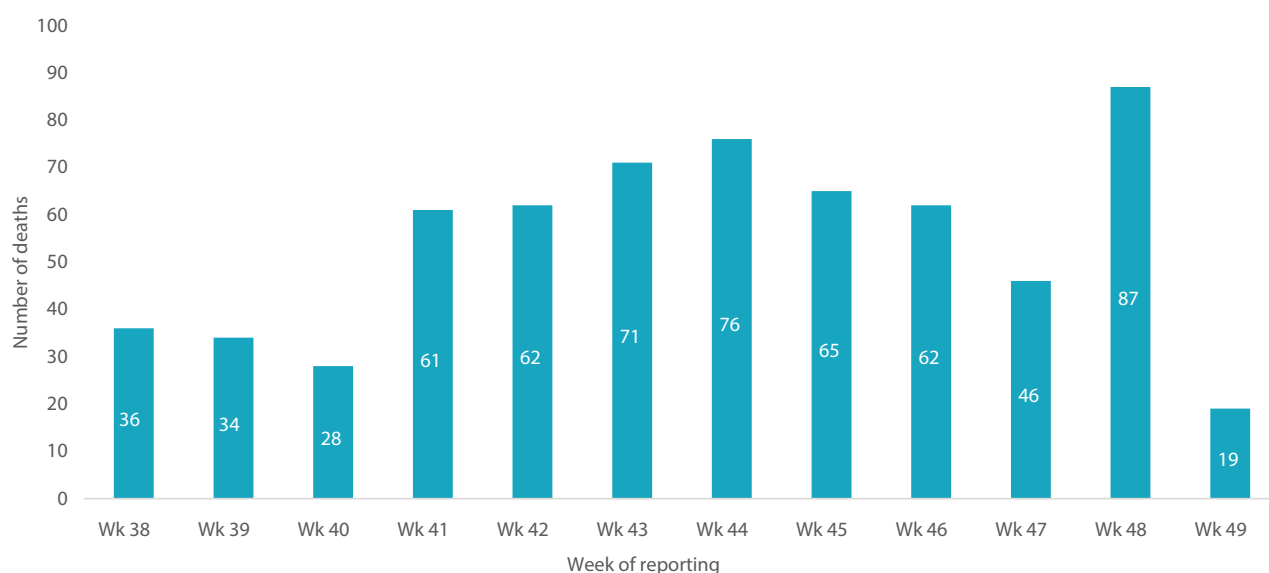


Figure 2: Weekly Test Positivity Rate – (12 weeks)**Figure 3: District Deaths Weekly (12 weeks)**

1.7 SUMMARY

Bagmati is the first province in the country to detect a case of Covid-19 in Nepal, back in early January 2020. The first case developed symptoms on 3 Jan 2020 in China, was in transit and screened at the Tribhuvan International Airport, confirmed on 23 Jan 2020. February brought in no new cases, March had 2 and April had 4 cases only, all were in the Kathmandu valley. Since May, 12 of the 13 districts, started reporting cases regularly with a monthly total of 38. June and July saw cases in hundreds and all the districts were reporting by

then. Cases jumped to 6721 in August, trebled to 21 thousand plus next month, again trebled to cross 60 000 in October. November witnessed a drop in the cases with a total of 38476.

- Bagmati province now has an incidence of 2038 per lakh population and the range of district level incidence varied between the lows of 2 per lakh in Rasuwa, to the highs of 211 per lakh in Lalitpur; and 1397 per lakh in Kathmandu districts. The one district that is fast catching up is Chitwan that locate the provincial capital. The case trend

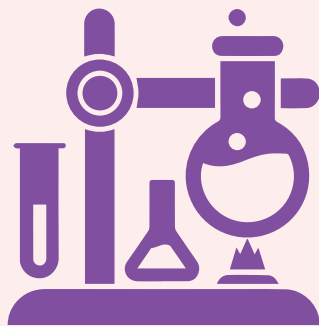
till now is that of a steep rise with the first jump in July with 680 cases, second in August with 6721 cases and third in October with 60116 cases. November, in absolute number garnered lesser statistic with 38476 cases.

- The age-sex pattern of the case incidence has changed much since the early months. The pattern is evenly distributed among both sexes and the proportion of female slowly increased in each age group with every passing month. Since May, almost all the age-groups started getting affected and females represented in some of those age groups. It is only from July that there is a homogeneous pattern affecting all age groups representing both sexes. Gradually the proportion of females increased in all age-groups though little slower than the males.
- Bagmati province comprises of two ecological regions of Nepal - Hills and Mountains. The mountain district of Rasuwa is the least affected accounting for 0.1% cases. Cases are concentrated in Kathmandu valley, district and metropolitan area. In the recent phase that is after August, the valley cases are engulfing adjoining areas and districts of Makawanpur, Chitwan and Dhading, giving a westward shift in the spatial pattern. The huge rise in burden of cases across the province was since middle of August and went up steeply till mid-October, that is up until the Dashain and Tihar festival times.
- Kathmandu valley with 3 districts of Kathmandu, Lalitpur and Bhaktapur accounted for 85% of the cases in the province. Kathmandu accounting for 69% of cases, Lalitpur 10% and Bhaktapur 6%. Again, the Kathmandu valley had the highest proportionate share and Kathmandu Metropolitan area had the single highest toll (not reflected in the provincial chart).
- Bagmati province is the hub of economic activities and has 38 PCR testing Laboratories; Kathmandu(21), Lalitpur(8), Chitwan(3), Kabhrepalanchowk(2) Bhaktapur(2), Makawanpur(1) and Nuwakot(1). The test positivity rates calculated as overall rate of test positives by PCR from amongst the total samples tested, had an upswing in the province during the month of October. The test positivity rates jumped from 14.2% in week 39 to cross 20% in the week 42 (October 12-19). The rate increased to a high of 27.2% in week 45 and gradually dropped to 18.1% by Week 48. The test positivity rate and adjusted test positivity rates indicate that the efficiency of testing strategy was consistent in May and June but was inconsistent in October probably due to the festival season.
- The total number of deaths in the province is 760 with an overall case fatality of 0.59%. There is substantive difference in the fatality rates across the districts. Kathmandu had 377 deaths out of 87890 cases with a fatality rate of 0.42%; Lalitpur had 113 deaths and 13275 cases with a fatality rate of 0.85%; Bhaktapur had 92 deaths and 7968 cases with a fatality rate of 1.15%, and Chitwan with 57 deaths out of 6670 cases had a fatality rate of 0.85%.

Table 1: WHO Transmission Classification

Category	Definition : Countries/territories/areas with
No (active) cases	No new cases detected for at least 28 days (two times the maximum incubation period), in the presence of a robust surveillance system (where COVID-19 surveillance is not robust, a lack of identified cases should not be interpreted as an absence of transmission). This implies a near-zero risk of infection for the general population.
Imported / Sporadic cases	Cases detected in the past 14 days are all imported, sporadic (e.g. laboratory acquired or zoonotic) or are all linked to imported/sporadic cases, and there are no clear signals of locally acquired transmission. This implies minimal risk of infection for the general population.
Clusters of cases	Cases detected in the past 14 days are predominantly limited to well- defined clusters that are not directly linked to imported cases, but which are all linked by time, geographic location and common exposures. It is assumed that there are a number of unidentified cases in the area. This implies a low risk of infection to others in the wider community if exposure to these clusters is avoided.
Community transmission – level 1 (CT1)	Low incidence of locally acquired, widely dispersed cases detected in the past 14 days, with many of the cases not linked to specific clusters; transmission may be focused in certain population sub-groups. Low risk of infection for the general population.
Community transmission – level 2 (CT2)	Moderate incidence of locally acquired, widely dispersed cases detected in the past 14 days; transmission less focused in certain population sub- groups. Moderate risk of infection for the general population.
Community transmission – level 3 (CT3)	High incidence of locally acquired, widely dispersed cases in the past 14 days; transmission widespread and not focused in population sub-groups. High risk of infection for the general population.
Community transmission – level 4 (CT4)	Very high incidence of locally acquired, widely dispersed cases in the past 14 days. Very high risk of infection for the general population.

②



LABORATORY CAPACITY

2

LABORATORY CAPACITY

2.1 INTRODUCTION

Here is a detailed description of the laboratory facilities established in the province in response to the COVID-19 pandemic. It is a compilation of the current testing capacity, facilities, equipment, consumables used, manpower, training, laboratory biosafety and bio-security, quality assurance and data management. It also provides salient observations and recommendations for the quality improvement and sustenance of the services.

The data was collected from the laboratories using standardized data collection tool followed by telephonic data collection and review of reports of onsite laboratory visit by experts.

Laboratory services for COVID-19 were established in Bagmati Province on 27th Jan 2020. As of 4th Nov 2020, a total of 787,943 samples were tested across 30 laboratories in Bagmati Province.

2.2 COVID-19 LABORATORIES

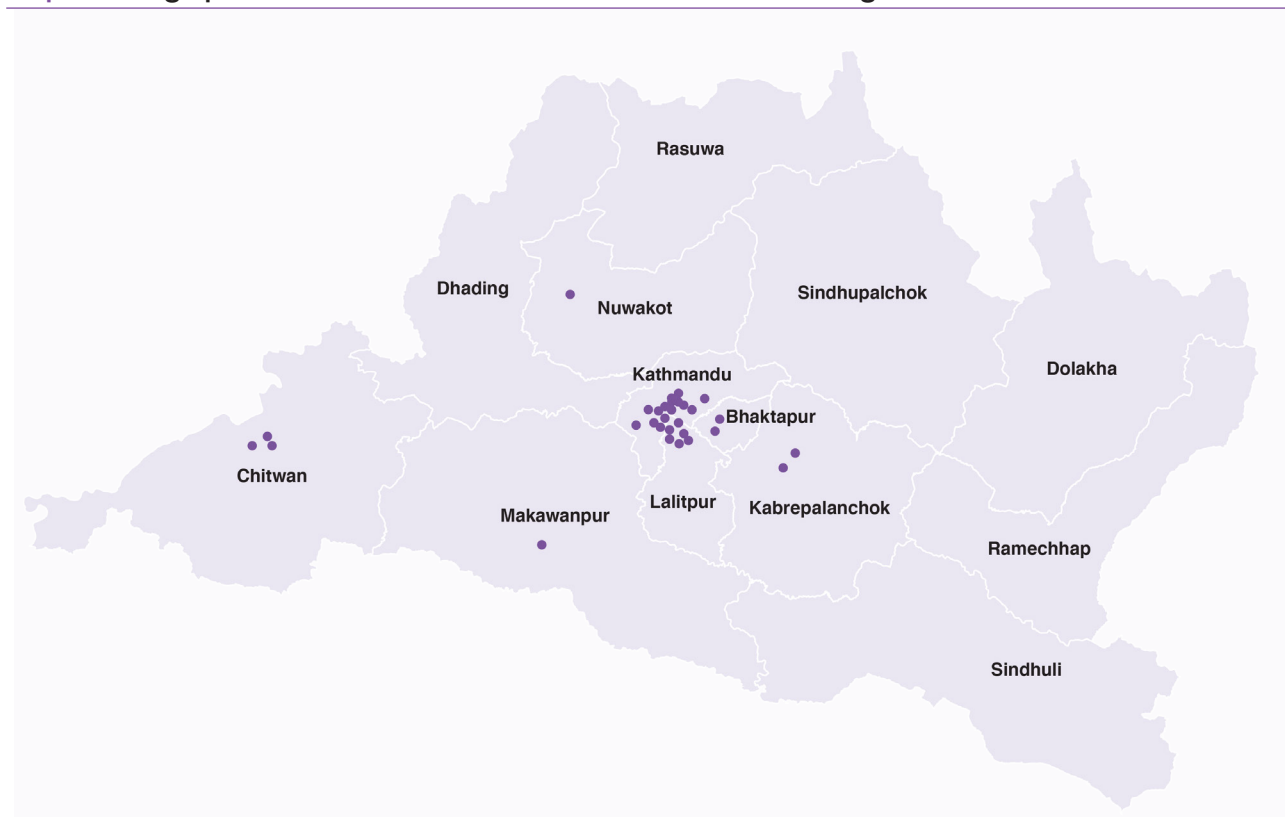
A total of forty laboratories were established either by repurposing existing laboratories or building new facilities in makeshift facilities. Of these forty, sixteen are government run and twenty-four are private sector as given below.

Table 2: Name, location and contact details of the COVID-19 laboratories in Bagmati Province

S.No.	Name of Laboratory	Address	Govt / Private
1	Alfa Health Care and Diagnostic Centre	Mahalaxmi, Lalitpur	Private
2	Alka Hospital	Jawalakhel, Lalitpur	Private
3	B & B Hospital	Satdobato, Lalitpur	Private
4	Bhaktapur Hospital	Bhaktapur	Govt
5	Bharatpur Hospital COVID-19 Diagnostic Lab/ National Avian Disease Inv. Lab	Bharatpur, Chitwan	Govt
6	Bidh Laboratory	Kupondole, Lalitpur	Private
7	Bir Hospital	Mahaboudha, Kathmandu	Govt
8	B.P. Koirala Memorial Cancer Hospital	Bharatpur, Chitwan	Govt
9	Central Diagnostic Lab and Research Centre	Kamalpokhari, Kathmandu	Private
10	Chitwan Medical College	Bharatpur, Chitwan	Private
11	Decode Genomics and Research Centre	Sinamangal, Kathmandu	Private
12	HAMS Hospital	Dhumbarahi, Kathmandu	Private
13	International Organization of Migration (IOM)	Baluwatar Kathmandu	Private
14	Intrepid Diagnostic Centre	Thapathali, Kathmandu	Private
15	Janamaitri Hospital	Balaju, Kathmandu	Private
16	Kathmandu Medical College	Sinamangal, Kathmandu	Private
17	Kathmandu University Teaching Hospital (KUTH)	Dhulikhel, Kavrepalanchok	Private
18	Kantipur Hospital Private Limited	Tinkune, Kathmandu	Private
19	KGDH Teaching Hospital and Research Centre	Basundhara, Kathmandu	Private
20	Kritipur Municipality-TU Biotech Corona Laboratory	Kirtipur	Govt
21	Leprosy Mission Nepal Anandaban Hospital	Lele, Lalitpur	Private
22	Manmohan Memorial Teaching Hospital	Swoyambhu, Kathmandu	Private
23	Modern Diagnostic Centre	Maharajgunj, Kathmandu	Private
24	National Public Health Laboratory	Teku, Kathmandu	Govt
25	Nepal Armed Police Force Hospital	Balambu, Kathmandu	Govt
26	Nepal Korea Friendship Municipality Hospital	Thimi, Bhaktapur	Private
27	Nepal Medical College Molecular and Clinical Genetic Lab	Jorpati, Kathmandu	Private

S.No.	Name of Laboratory	Address	Govt / Private
28	Nepal Medicit Hospital	Nakkhu, Lalitpur	Private
29	Nepal Police Hospital	Panipokhari, Kathmandu	Govt
30	Paropakar Maternity and Women's Hospital	Thapathali, Kathmandu	Govt
31	Patan Academy of Health Sciences	Lagankhel, Lalitpur	Govt
32	Provincial Public Health Laboratory-3 (PPHL-3)	Dhulikhel, Kavrepalanchok	Govt
33	Shree Birendra Hospital	Chhauni, Kathmandu	Govt
34	Siddhi Poly Path Lab	Dillibazar, Kathmandu	Private
35	Sooriya Health Care	Lazimpat, Kathmandu	Private
36	Star Hospital	Sanepa, Lalitpur	Private
37	Sukraraj Tropical and Infectious Disease Hospital	Teku, Kathmandu	Govt
38	Tribhuvan University Teaching Hospital (TUTH)	Maharajgunj, Kathmandu	Govt
39	Trisuli Hospital	Bidur, Nurwakot	Govt
40	Vector Borne Disease Research and Training Centre (VBDRTC)	Hetauda, Makwanpur	Govt

Map 10: Geographic Distribution of the COVID-19 Laboratories in Bagmati Province



2.3 TESTING CAPACITY OF THE LABORATORIES

Table 3: Testing capacity of COVID-19 laboratories in Bagmati Province

Name of Laboratory	Date of establishment (DD/MM/YYYY)	Estimated Testing Capacity/day	Maximum PCR tests/run
Alfa Health Care and Diagnostic and Centre	19/10/2020 (03/07/2077)	1000	72
Alka Hospital	22/10/2020 (06/07/2077)	200	96
B & B Hospital	05/08/2020 (21/03/2077)	500	96
Bhaktapur Hospital	22/10/2020 (06/07/2077)	55	96
Bharatpur Hospital COVID-19 Diagnostic Lab	04/04/2020 (22/12/2076)	200	96
Bidh Laboratory	28/07/2020 (13/04/2077)	4800	96
Bir Hospital	10/04/2020 (28/12/2076)	400	96, 36
B.P. Koirala Memorial Cancer Hospital	06/09/2020 (21/05/2077)	300	96
Central Diagnostic Lab and Research Centre	31/07/2020 (16/04/2077)	1000	96
Chitwan Medical College	14/08/2020 (30/04/2077)	1000	72
Decode Genomics and Research Centre	18/08/2020 (02/05/2077)	1500	72, 48, 48
HAMS Hospital	21/07/2020 (06/04/2077)	400	96, 96
International Organization of Migration (IOM)	12/10/2020 (26/06/2077)	6-7	16
Intrepid Diagnostic Centre	18/08/2020 (02/05/2077)	600	96
Janamaitri Hospital	20/10/2020 (04/07/2077)	500	96
Kantipur Hospital	04/11/2020 (19/07/2077)	300	96
Kathmandu Medical College	28/06/2020 (14/03/2077)	1500	96
Kathmandu University Teaching Hospital	05/04/2020 (23/12/2076)	1000	96
KGDH Teaching Hospital and Research Centre	12/11/2020 (27/07/2077)	300	96
Kritipur Municipality-TU Biotech Corona Laboratory	18/09/2020 (02/06/2077)	130	96
Leprosy Mission Nepal Anandaban Hospital	31/07/2020 (16/04/2077)	200	96
Manmohan Memorial Teaching Hospital	08/10/2020 (22/06/2077)	100	32
Modern Diagnostic Centre	19/10/2020 (03/07/2077)	50	9
National Public Health Laboratory	27/01/2020 (13/10/2076)	2000	96
Nepal Armed Police Force Hospital	06/09/2020 (21/05/2077)	200	96
Nepal Korea Friendship Municipality Hospital	22/06/2020 (08/03/2077)	500	96
Nepal Medical College Molecular and Clinical Genetic Lab	08/10/2020 (22/06/2077)	600	96
Nepal Medicit Hospital	10/08/2020 (26/04/2077)	500	96
Nepal Police Hospital	02/07/2020 (18/03/2077)	400	96
Paropakar Maternity and Women's Hospital	15/08/2020 (31/04/2077)	300	96
Patan Academy of Health Sciences	23/04/2020 (11/01/2077)	100	96
Provincial Public Health Laboratory-3 (PPHL-3)	06/09/2020 (21/05/2077)	1500	96
Shree Birendra Hospital	19/07/2020 (04/04/2077)	200	96
Siddhi Poly Path Lab	22/10/2020 (06/07/2077)	500	96
Sooriya Health Care	12/07/2020 (28/04/2077)	1000	96
Star Hospital	28/06/2020 (14/03/2077)	2000	96
Sukraraj Tropical and Infectious Disease Hospital	05/04/2020 (23/12/2076)	320	72
Tribhuvan University Teaching Hospital	25/05/2020 (12/02/2077)	350	96
Trisuli Hospital	23/10/2020 (07/07/2077)	200	96
Vector Borne Disease Research and Training Centre	05/04/2020 (23/12/2076)	400	96

2.4 EQUIPMENT AVAILABILITY

Table 4: Distribution of Equipment available in COVID-19 laboratories in Bagmati Province

Name of Laboratory	PCR Machine		RNA automated extraction machine		Biosafety Cabinet		Freezer (Qty)		
	Brand (Capacity)	Qty	Brand (capacity)	Qty	Brand	Qty	-80°C	-40°C	-20°C
Alfa Health Care and Diagnostic Centre	Quantstudio ABI	2	ZK-96 (1) HMSE-96 (2)	3	APS	2	1	-	1
Alka Hospital	Bio-Rad	1	Zybio	1	Brand not specified	1	1	2	-
B&B Hospital	Quantstudio	1	-	-	Biobase	2	1	-	-
Bhaktapur Hospital	Bio-Rad	1	-	-	Quest Scientific	1	-	-	1
Bharatpur COVID-19 Diagnostic Lab	CFX 96 Bio-Rad (96)	1	Sansure	1	ESCO	1	-	-	1
Bidh Laboratory	Lepgene	2	Nexor-96	2	Indosati	4	1	-	5
Bir Hospital	Rotor-GeneQ (96) 7500 Fast ABI RT (96)	2	-	-	ESCO	1	-	-	-
B. P Koirala Memorial Cancer Hospital	Applied Biosystem (ABI)	1	ZK-32	2	Micro-filt, NuAire	2	-	-	2
Central Diagnostic Laboratory and Research Centre	Bio-Rad (96) Quantstudio	2	Nanjing Automated Biomed (ZK)	1	Brand not specified	2	-	-	1
Chitwan Medical College	Rotor geneQ (72) Quantstudio	2	ZK-96	1	Micro-filt	2	-	-	1
Decode Genomics and Research Centre	Rotor-GeneQ BMS ABI	3	-	-	Indosati	2	1	-	4
HAMS Hospital	Bio-Rad (96)	3	-	-	Biobase	2	1	-	1
International Organization of Migration	GeneXpert	1	-	-	NuAire	1	-	1	1
Intrepid Diagnostic Centre	Sacace	2	AIT biotech (abGenix)	1	Astrocel, Haier	2	-	-	2
Kantipur Hospital	Quantstudio-5	1	Autopure 32A	1	APS India 2	1	-	-	3
Kathmandu Medical College	Rotor-GeneQ Quantstudio	2	Nanjing	1	SMI India	2	1	-	1
Kathmandu University Teaching Hospital	CFX 96 Bio-Rad (96)	2	Chemagic 360 Magnetic separator, Perkin Elmer	1	ESCO	2	8	-	10
KGDH Teaching Hospital and Research Centre	MA-6000	1	Uni-medica	1	Brand not specified	2	1	-	1
Kirtipur Municipality-TU Biotech Corona Laboratory	Bio-Rad	1	-	-	Brand not specified	2	1	-	1
Leprosy Mission Nepal Anandaban Hospital	Rotor-GeneQ	1	Genepure Pro 32 P, Bioer-32	2	Labk	1	2	-	3
Manmohan Memorial Teaching Hospital	Quantstudio	1	Zybio	1	Haier	1	2	-	1
Modern Diagnostic Centre	Thermofischer Quantstudio	1	Hema Medical Instrument	1	Brand not specified	2	-	-	-
National Public Health laboratory	Rotor-geneQ (1) CFX 96 Bio-Rad(4) 7500 Fast ABI (2) Thermofisher Quantstudio5 (1)	8	Zhongke Biomed (ZK) Chemagic 360 Magnetic separator, Perkin Elmer	2	ESCO	10	5	-	5
Nepal Armed Police Force Hospital	Rotor-GeneQ	1	Bioer-32	1	Brand not specified	1	-	-	2
Nepal Korea Friendship Hospital	Sacace	2	abGenix	1	Brand not specified	1	-	-	1

Name of Laboratory	PCR Machine		RNA automated extraction machine		Biosafety Cabinet		Freezer (Qty)		
	Brand (Capacity)	Qty	Brand (capacity)	Qty	Brand	Qty	-80°C	-40°C	-20°C
Nepal Medical College Molecular and Clinical Genetic Lab	Quantstudio	1	Autopure-32	1	Haier	1	1	-	1
Nepal Medicti Hospital	Quantstudio 5 (96)	1	Thermofischer-24 (2) Bioer-32 (1)	3	Biobase	2	1	-	2
Nepal Police Hospital	Rotor-GeneQ (96)	1	-	-	Micro-filt Safezone	2	-	-	-
Paropakar Maternity and Women's Hospital	Slan 96P	1	-	-	Biobase	1	-	-	-
Patan Academy of Health Sciences	CFX 96 Bio-Rad	1	-	-	ESCO	1	1	-	-
Provincial Public Health Laboratory-3	CFX 96 Bio-Rad RT PCR thermal Cyclor	1	-	-	Micro-filt Quest	2	1	-	1
Shree Birendra Army Hospital	DLAB Accurate (96)	1	-	-	Biobase	1	1	-	1
Sooriya Health Care	Rotor-GeneQ Quant studio	2	Nanjing	1	Micro-filt	1	1	-	1
Star Hospital	Quantstudio (96)	1	Nanjing-96 and 32 (3) Bioer-1	4	Bioer, Safezone	2	1	-	1
Siddhi Poly Path Lab	Bio-Rad CFX96	1	AIT biotech (abGenix)	1	ESCO BSC level-II (1) Accumax Level-II (1) Micro-filt (2)	4	1	-	2
Sukra Raj Tropical and Infectious Disease Hospital	Rotor-GeneQ (72)	1	Zybio-EXM3000	1	Class II A2 Biosafety cabinet (Brand not specified)	1	-	-	-
Tribhuvan University and Teaching Hospital	CFX 96 Bio-Rad	1	-	-	ESCO	1	-	-	-
Trisuli Hospital	Thermofischer Quantstudio	1	-	-	Class II A2 biosafety cabinet 1 (Brand not specified)	1	-	-	-
Vector Borne Disease Research and Training Centre (VBDRTC)	CFX 96 Bio-Rad	1	-	-	JSR	1	-	-	-

Figure 4: Types of PCR Machines used in COVID-19 laboratories in Bagmati Province

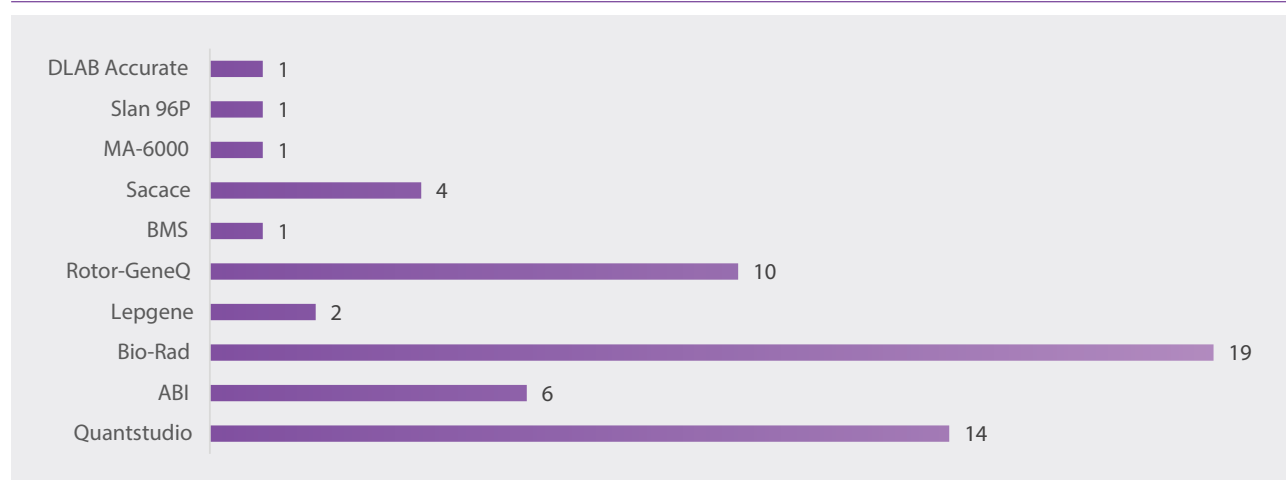


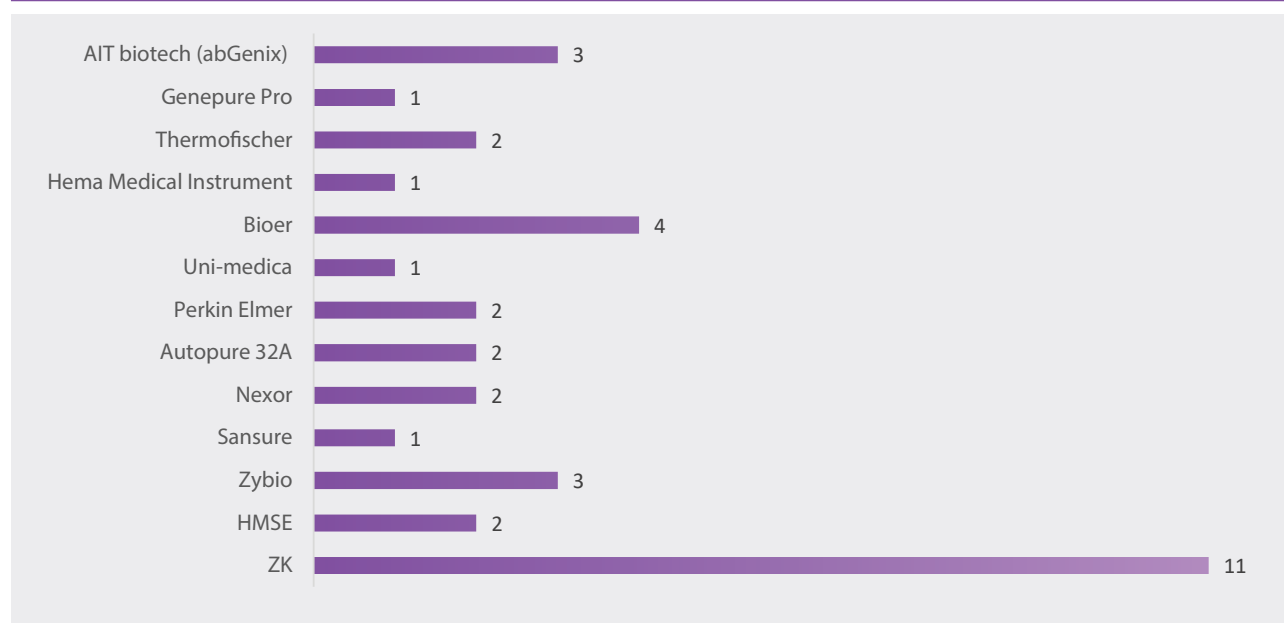
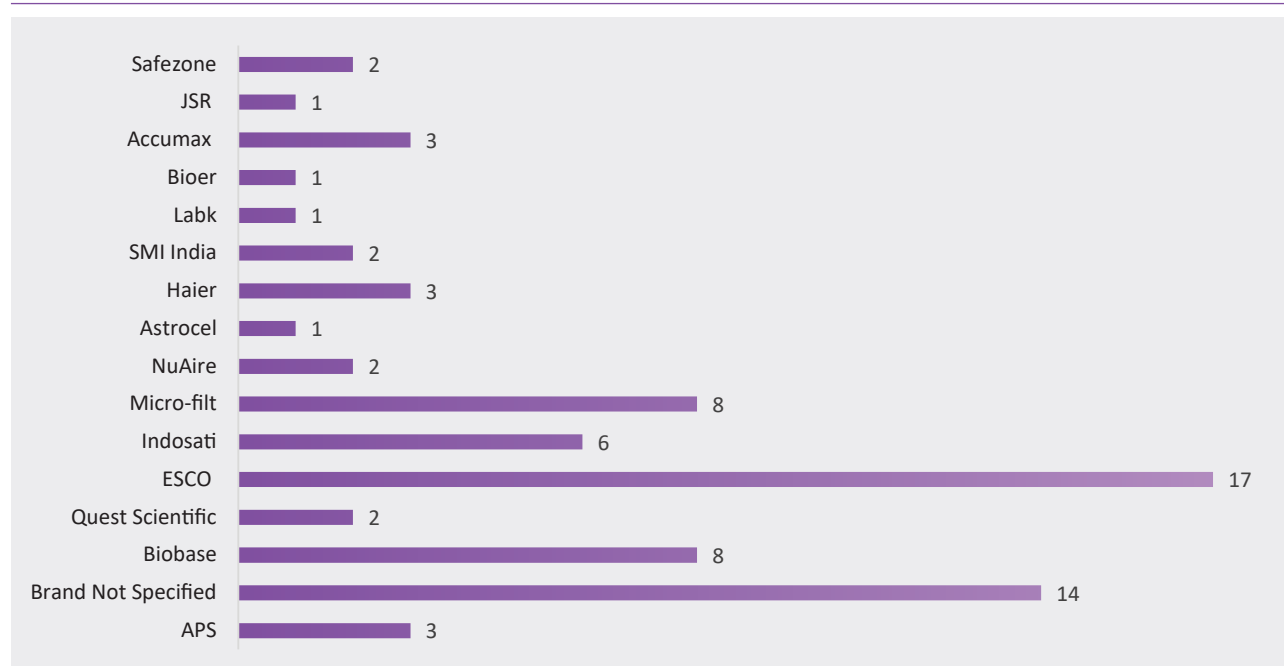
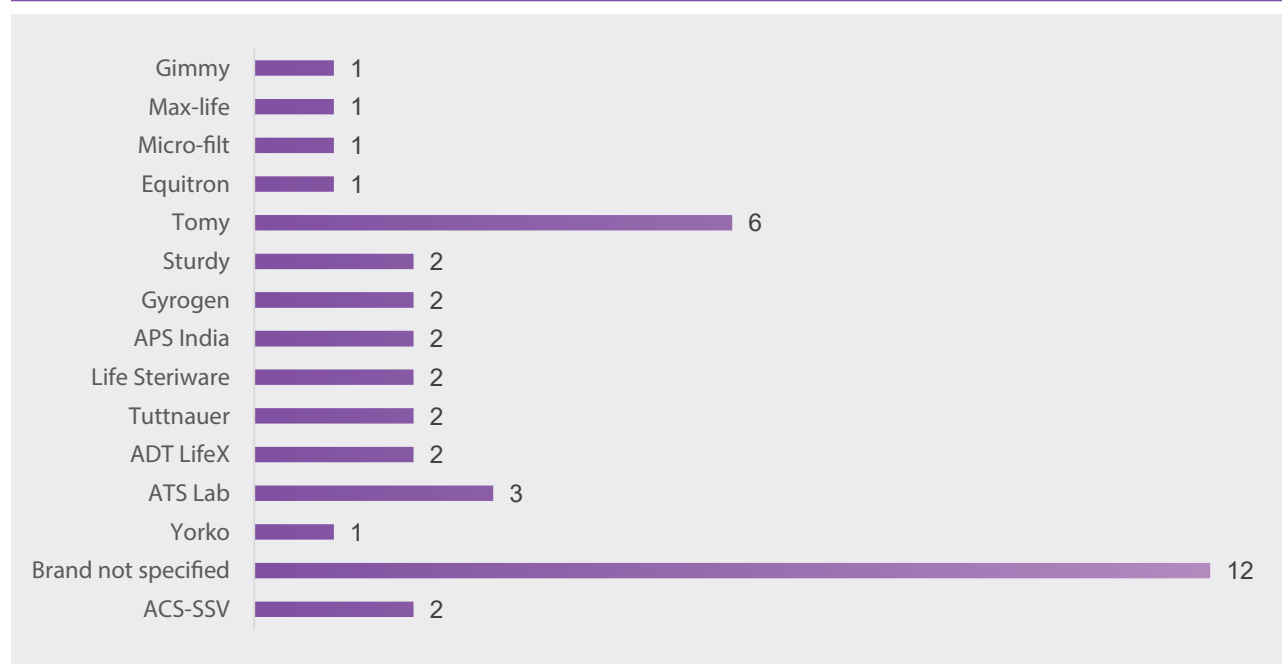
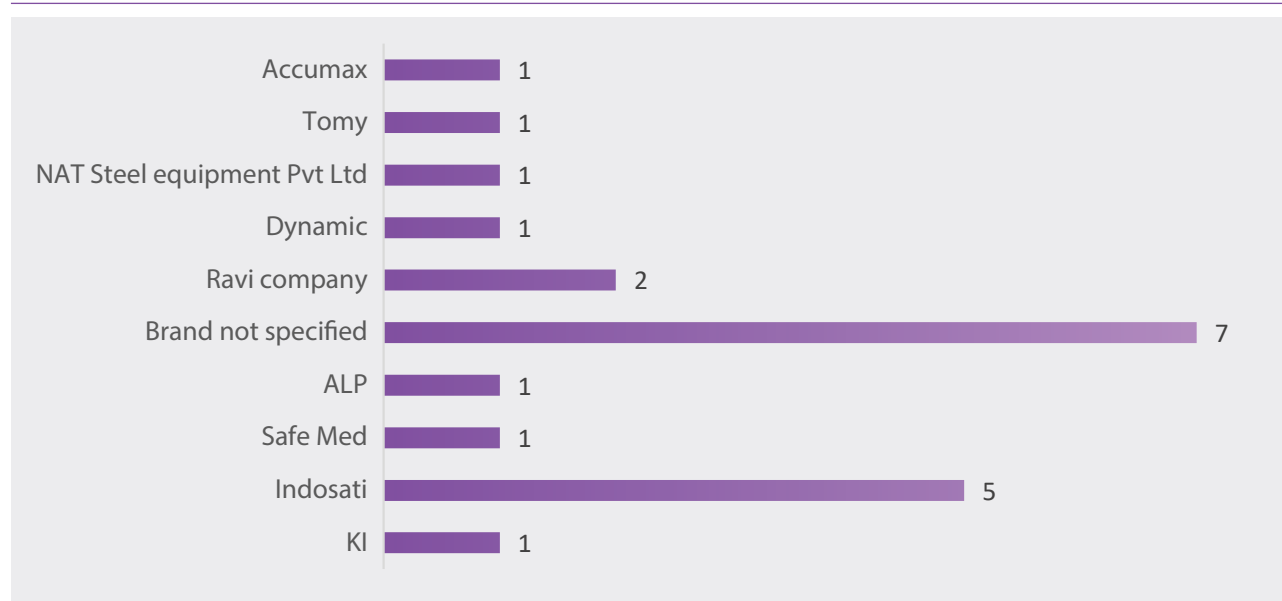
Figure 5: Types of Automated RNA Extraction Machines used in COVID-19 laboratories in Bagmati Province**Figure 6: Types of Biosafety Cabinets used in COVID-19 laboratories of Bagmati Province**

Table 5: Types and Capacity of Autoclave Machines in COVID-19 laboratories in Bagmati Province

Name of Laboratory	Number of Autoclave machine	Capacity (litres)	Company (Brand)
Alfa Health Care and Diagnostic Centre	2	1= 85 l 2= 85 l	ACS-SSV
Alka Hospital	1	185 l	KI
B&B Hospital	1	25 l	Indian brand (Brand not specified)
Bidh Laboratory	2	Both 400 l	Both Indosati
Bir Hospital	No Separate Autoclave for COVID lab	-	-
Bhaktapur Hospital	1	1=100 l	Safemed
Bharatpur COVID-19 Diagnostic Lab	2	1= 108 l 2=35-50 l	1= ALP (Automatic) 2= Local brand (Brand not specified)
BP Koirala Memorial Cancer Hospital	1	40 l	Yorke
Chitwan Medical College	3	All 90 l	All 3 ATS lab
Decode	2	1= 200 l 2= 130 l	Indosati
HAMS hospital	2	1=49 l 2=22 l	ADT Life X
International Organization of Migration	2	1=185 l 1=35 l	Indian brand (Brand not specified)
Intrepid Diagnostic Centre	3	1=15 l 2=20 l 3=70 l	1= Tuttnauer 2= Brand not specified 3= Brand not specified
Janamaitri Hospital	2	1= 20 l 2= 20 l	Life Steriware
Kantipur Hospital	2	1= 85 l 2= 85 l	APS India
Kathmandu Medical College	2	1 = Above 100 l 2= 180 l	Indian brand (Brand not specified)
Kathmandu University Teaching Hospital	2	Both 80 l	Gyrogen
KGDH Teaching Hospital and Research Centre	1	120 l	Brand not specified
Kirtipur Municipality-TU Biotech Corona Laboratory	1	50 l	Sturdy
Leprosy Mission Nepal Anandaban Hospital	2	Both 100 l	Ravi Company
Manmohan Memorial Teaching Hospital	1	100 l	Dynamic
Modern Diagnostic Centre	1	190 l	Indian brand (Brand not specified)
National Public Health laboratory	6	Below 100 l	Tomy
Nepal Armed Police Force Hospital	1	80 l	Brand not specified
Nepal Korea Friendship Hospital	3	1= 30 l 2= 80 l 3= 65 l	1= Local brand (Brand not specified) 2= Local brand (Brand not specified) 3= Tuttnauer
Nepal Medical College Molecular and Clinical Genetic Lab	1	75 l	Equitron
Nepal Mediciti Hospital	1	1= 75 l 2= 45 l	Brand not specified
Nepal Police Hospital	1	250 l	NAT Steel equipment Pvt Ltd
Paropakar Maternity and Women's Hospital	1	180 l	Indosati
Patan Academy of Health Sciences	No Separate Autoclave for COVID lab	-	-
Provincial Public Health Laboratory-3	1	250 l	Vertical Autoclave Model AI-129 (Brand not specified)
Shree Birendra Hospital	2	1= 100 l 2= 50 l	1= Indian brand (Brand not specified) 2= Korean brand (Brand not specified)
Sooriya Health Care	2	1= 85 l 2= 120 l	1= Micro-filt 2= Brand not specified
Siddhi Poly Path lab	1	75 l	Brand not specified
Star Hospital	2	1= 50 l 2= 20 l	1= Sturdy Autoclave Sterilizer (Automatic) 2= MaxLife Autoclave
Sukra Raj Tropical and Infectious Disease Hospital	1	35 l	Gimmy
Tribhuvan University and Teaching Hospital	1	150 l	Tomy
Trisuli Hospital	1	170 l	Accumax
Vector Borne Disease Research and Training Centre	1	250 l	Vertical Autoclave Model AI-129 (Brand not specified)

Figure 7: Types of Autoclave Machines with capacity <100 litre in COVID-19 laboratories in Bagmati Province**Figure 8: Types of Autoclave Machines with capacity ≥100 litre in COVID-19 laboratories in Bagmati Province**

2.5 CONSUMABLES/ LABORATORY REAGENTS

Table 6: Brands of Viral Transport Media (VTM), PCR test kits and RNA extraction kits used in COVID-19 laboratories in Bagmati Province

Name of Laboratory	VTM in use	PCR test kits	RNA Extraction kits
Alfa Health Care and Diagnostic Centre	Dasky	Maccura	Zhongke bio, Unimedica
Alka Hospital	Everest	Perkin elmer	Zybio
B&B Hospital	Sanli	Runmei, Maccura	Runmei, HiMedia
Bhaktapur Hospital	Biotech	Unimedica	Biocomma
Bharatpur COVID-19 Diagnostic Lab	Sanli	Maccura	Geneaid

Name of Laboratory	VTM in use	PCR test kits	RNA Extraction kits
Bidh Laboratory	Guandong Ardent Biomed	Dangene	Lipu tec
Bir Hospital	Sansure, GGC	TaqPath	TaqPath
BP Koirala Memorial Cancer Hospital	Sanli	Maccura	ZK Biomed
Chitwan Medical College	Guandong Ardent Biomed	Unimedica	ZK Biomed
Decode Genomics and Research Centre		Maccura	Runmei
International Organization of Migration	-	Cephied	Cephied
Intrepid Diagnostic Centre	Everest	Seegene	abGenix
Kathmandu Medical College	Nodford	Maccura	Nanjing
Kathmandu University Teaching Hospital	Sanli	E- Diagnostic	Wuhan Easy Diagnosis
Kantipur Hospital	Dasky	Maccura	Maccura
KGDH Teaching Hospital and Research Centre	Runmei	Maccura	Runmei
Kirtipur Municipality-TU Biotech Corona Laboratory	Chinese brand (Brand not specified)	Sansure, GB (General Biologicals Corporation)	GB (General Biologicals Corporation)
Leprosy Mission Nepal Anandaban Hospital	Runmei	Maccura	Bioer
Manmohan Memorial Teaching Hospital	Vanguard diagnostic, Runmei	Maccura	Zybio
Modern Diagnostic Lab	Dasky	Maccura	Unimedica
National Public Health laboratory	As supplied	TaqPath	Geneaid
Nepal Armed Police Force Hospital	Sanli	Fosun	Bioer
Nepal Korea Friendship Hospital	Everest	Seegene	abGenix
Nepal Medical College Molecular and Clinical Genetic Lab	Dasky	Maccura	Biocomma
Nepal Medicit Hospital	Topoct	Maccura	ThermoFisher Scientific
Nepal Police Hospital	As supplied	SD Biosensor	Bioflex Automatic
Paropakar Maternity and Women's Hospital	As supplied	TIB MolBio	Genefine
Patan Academy of Health Sciences	Sanli	Unimedica	Korean brand (Brand not specified)
Provincial Public Health Laboratory-3	Chinese brand (Brand not specified)	Fosun	Geneaid
Shree Birendra Hospital	As supplied	SD Biosensor	Geneaid
Star Hospital	Everest, Dasky	Maccura	Bioer, Nanjing
Siddhi Poly Path Lab	Cellkraft Biotech	Seegene	abGenix
Sooriya Health Care	Dasky	Maccura	Nanjing
Sukra Raj Tropical and Infectious Disease Hospital	Sanli	Fosun	QIA Symphony SP/AS
Tribhuvan University and Teaching Hospital	As supplied	GB	Geneaid
Trisuli Hospital	Chinese brand (Brand not specified)	TIB MolBio	Sansure
Vector Borne Disease Research and Training Centre	Babio, Sanli	SD Biosensor	Geneaid

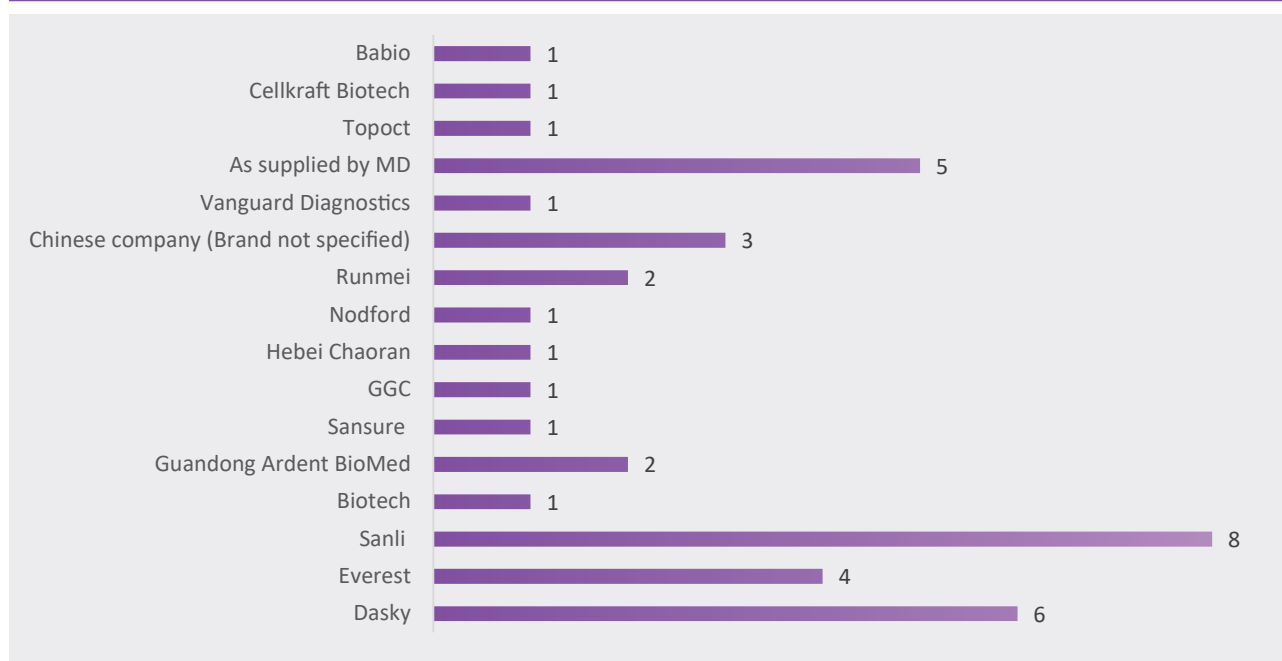
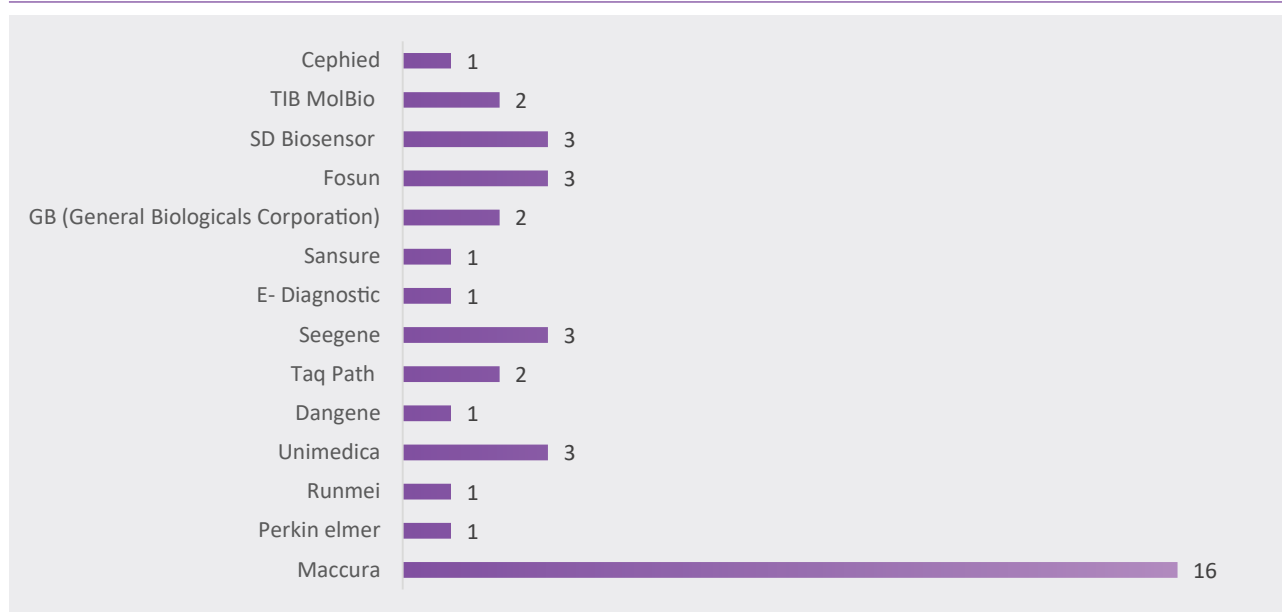
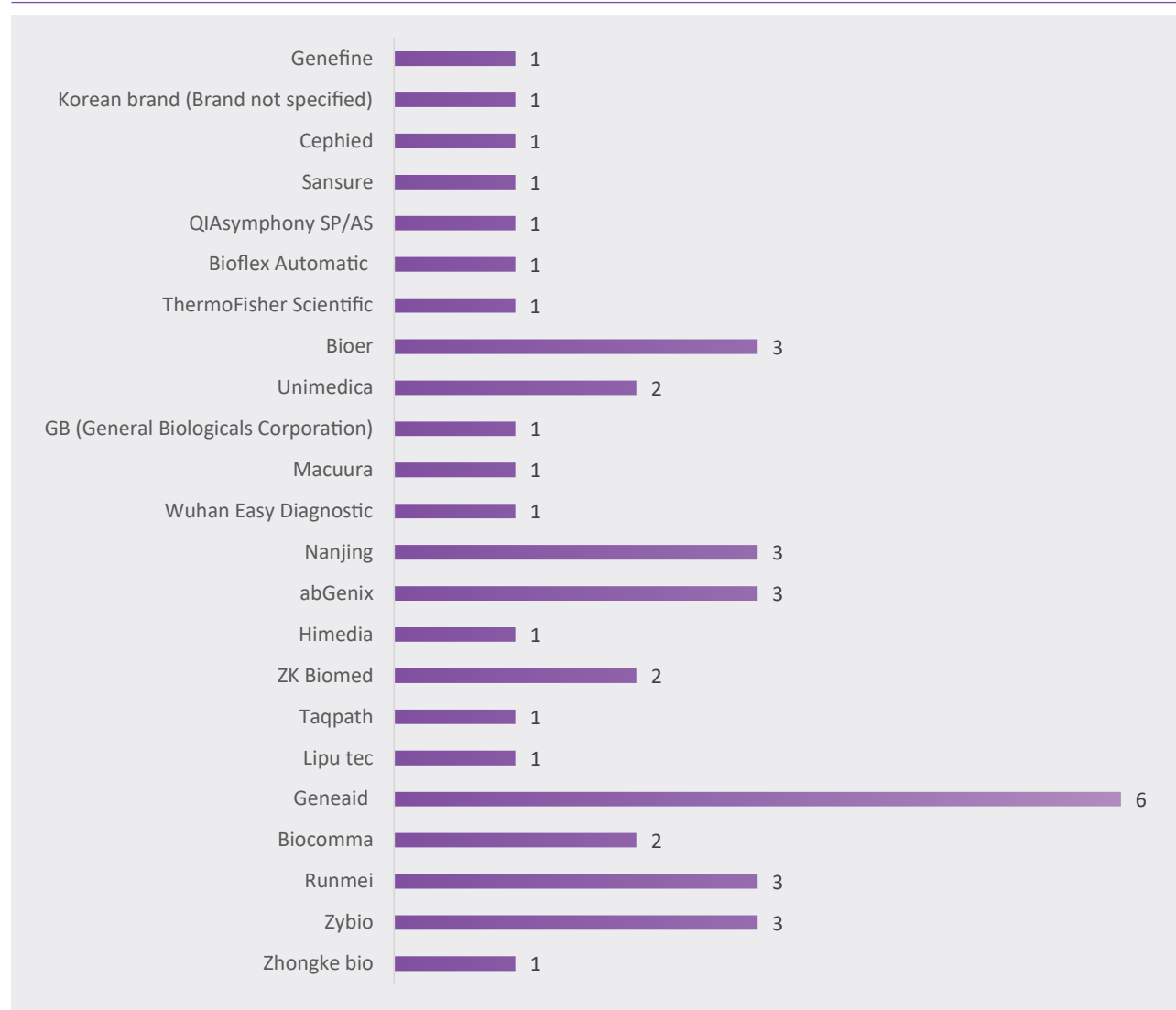
Figure 9: Types of VTM used in COVID-19 laboratories in Bagmati Province**Figure 10: Types of PCR Test Kits used in COVID-19 laboratories in Bagmati Province**

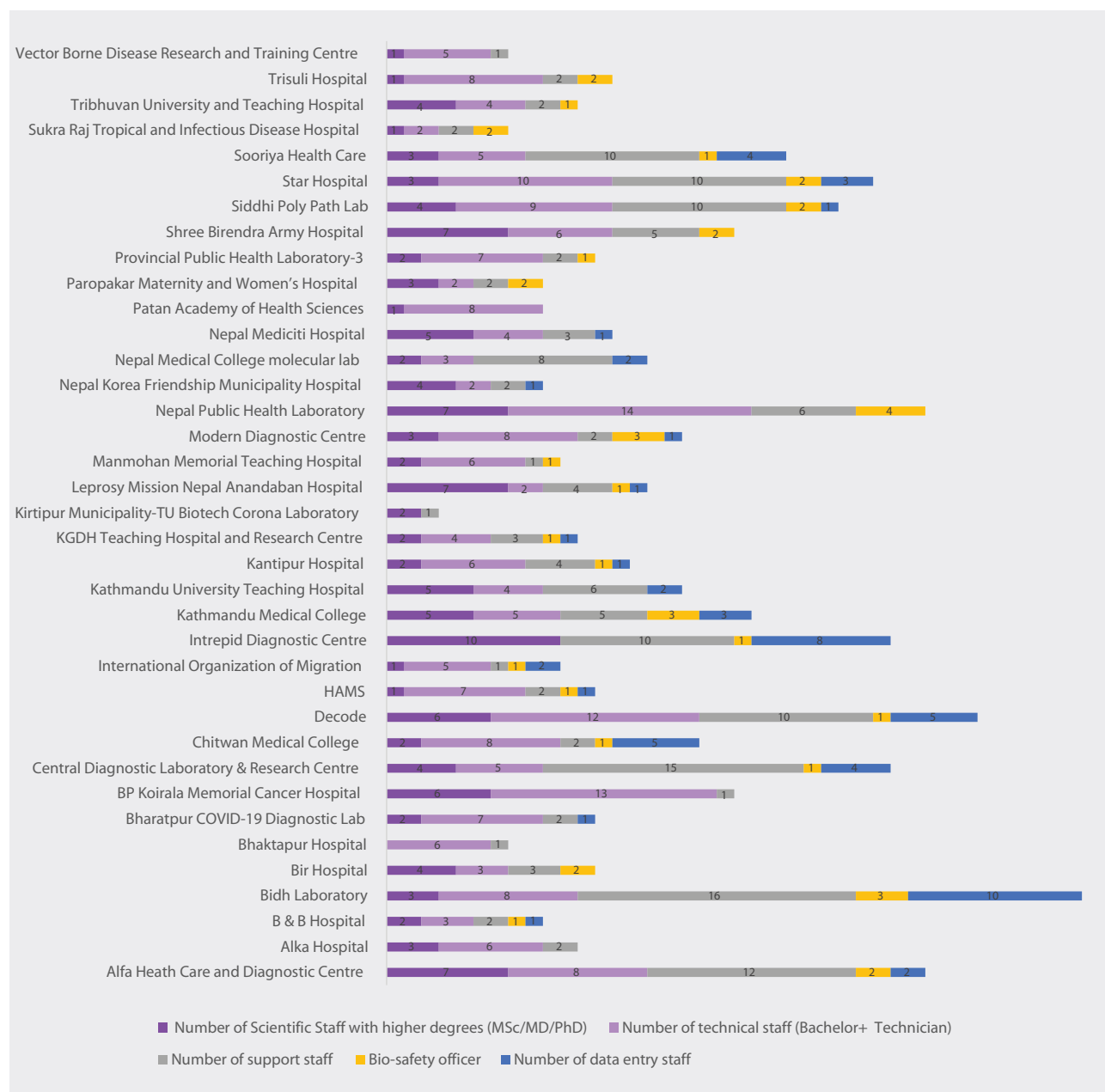
Figure 11: Types of RNA Extraction Kits used in COVID-19 laboratories in Bagmati Province

2.6 HUMAN RESOURCES

Table 7: Distribution of Human Resources in COVID-19 laboratories in Bagmati Province

Name of Laboratory	Number of Scientific Staff with higher degrees (MSc/MD/PhD)	Number of technical staff (Bachelor+ Technician)	Number of support staff	Number of bio-safety officer	Number of data entry staff
Alfa Health Care and Diagnostic Centre	7	8	12	2	2
Alka Hospital	3	6	2	Routine Staff	No Separate Person
B & B Hospital	2	3	2	1	1
Bidh Laboratory	3	8	16	3	10
Bir Hospital	4	3	3	2	Yes
Bhaktapur Hospital	-	6	1	Routine Staff	Routine Staff
Bharatpur COVID-19 Diagnostic Lab	2	7	2	-	1
BP Koirala Memorial Cancer Hospital	6	13	1	-	-
Central Diagnostic Laboratory & Research Centre	4	5	15	1	4
Chitwan Medical College	2	8	2	1	5

Name of Laboratory	Number of Scientific Staff with higher degrees (MSc/MD/PhD)	Number of technical staff (Bachelor+ Technician)	Number of support staff	Number of bio-safety officer	Number of data entry staff
Decode	6	12	10	1	5
HAMS	1	7	2	1	1
International Organization of Migration	1	5	1	1	2
Intrepid Diagnostic Centre	10	-	10	1	8
Kathmandu Medical College	5	5	5	3	3
Kathmandu University Teaching Hospital	5	4	6	-	2
Kantipur Hospital	2	6	4	1	1
KGDH Teaching Hospital and Research Centre	2	4	3	1	1
Kirtipur Municipality-TU Biotech Corona Laboratory	2	-	1	-	-
Leprosy Mission Nepal Anandaban Hospital	7	2	4	1	1
Manmohan Memorial Teaching Hospital	2	6	1	1	-
Modern Diagnostic Centre	3	8	2	3	1
Nepal Public Health Laboratory	7	14	6	4	Yes
Nepal Korea Friendship Municipality Hospital	4	2	2	Yes	1
Nepal Medical College molecular lab	2	3	8	Yes	2
Nepal Mediciti Hospital	5	4	3	Routine staff	1
Patan Academy of Health Sciences	1	8	-	-	-
Paropakar Maternity and Women's Hospital	3	2	2	2	Routine staff
Provincial Public Health Laboratory-3	2	7	2	1	-
Shree Birendra Army Hospital	7	6	5	2	Routine staff
Siddhi Poly Path Lab	4	9	10	2	1
Star Hospital	3	10	10	2	3
Sooriya Health Care	3	5	10	1	4
Sukra Raj Tropical and Infectious Disease Hospital	1	2	2	2	-
Tribhuvan University and Teaching Hospital	4	4	2	1	-
Trisuli Hospital	1	8	2	2	-
Vector Borne Disease Research and Training Centre	1	5	1	-	-

Figure 12: Distribution of Human Resources in COVID-19 laboratories in Bagmati Province

2.7 LABORATORY QUALITY INDICATORS

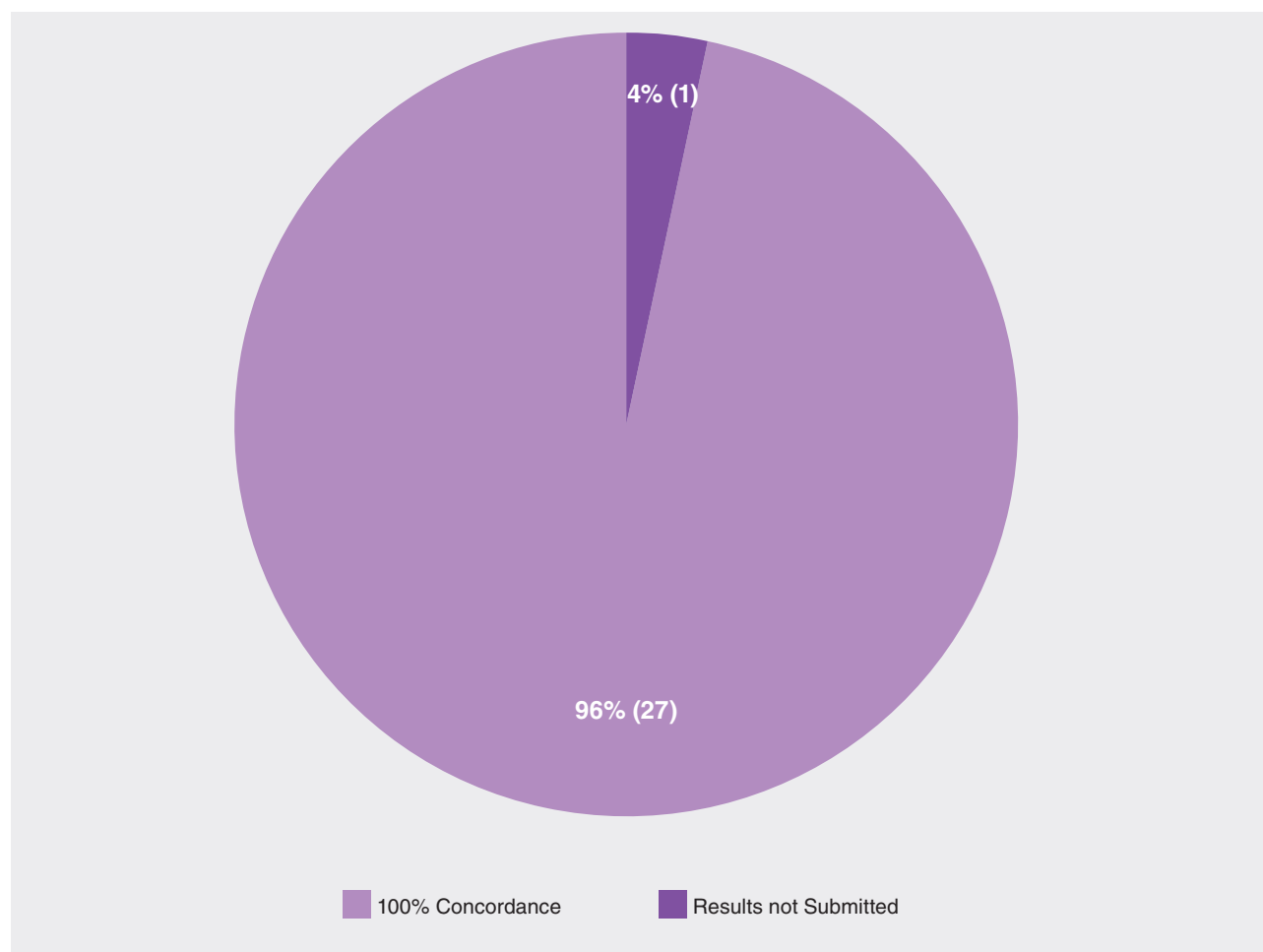
Table 8: Laboratory Quality Indicators of COVID-19 laboratories in Bagmati Province

Name of Laboratories	Result of EQAS (Retesting done at NPHL and Proficiency Testing in %)				PT Panel
	Asadh (June-July)	Shrawan (July-Aug)	Bhadra (Aug-Sept)	Asoj (Sept-Oct)	
Alfa Heath Care and Diagnostic Centre	NE	NE	NE	NE	NE
Alka Hospital	NE	NE	NE	NE	NE
B&B Hospital	NE	VC	NP	80	100
Bir Hospital	NP	NP	100	NP	100
Bidh Laboratory	NE	NE	VC	NP	100
Bharatpur COVID-19 Diagnostic Lab	100	NP	100	100	100
Bhaktapur Hospital	NE	NE	NE	NE	NE

Name of Laboratories	Result of EQAS (Retesting done at NPHL and Proficiency Testing in %)				PT Panel
	Asadh (June-July)	Shrawan (July-Aug)	Bhadra (Aug-Sept)	Asoj (Sept-Oct)	
B.P Koirala Memorial Cancer Hospital	NE	NE	NE	VC	100
Central Diagnostic Laboratory Pvt Ltd	NE	VC	100	100	100
Chitwan Medical College	NE	NE	NE	VC	100
Decode	NE	NE	VC	NP	100
HAMS Hospital	NE	VC	100	NP	100
International Organization of Migration	NE	NE	NE	NE	NE
Intrepid Diagnostic Centre	NE	NE	VC	100	100
Kantipur Hospital	NE	NE	NE	NE	NE
Kathmandu Medical College	NE	VC	NP	NP	100
Kathmandu University Teaching Hospital	100	100	100	NP	100
KGDH Teaching Hospital and Research Centre	NE	NE	NE	NE	NE
Kirtipur Municipality-TU Biotech Corona Laboratory	NE	NE	VC	NP	100
Leprosy Mission Nepal Anandaban Hospital	NE	NE	VC	NP	100
Manmohan Memorial Teaching Hospital	NE	NE	NE	NE	NE
Modern Diagnostic Centre	NE	NE	NE	NE	NE
National Public Health Laboratory	-	-	-	-	-
Nepal Armed Police Force Hospital	NE	VC	NP	100	100
Nepal Korea Friendship Hospital	NE	NE	VC	100	100
Nepal Medicit Hospital	NE	NE	VC	100	100
Nepal Police Hospital Laboratory	NE	VC	90	100	100
Paropakar Maternity and Women's Hospital	NE	VC	100	100	100
Patan Academy of Health Sciences	NP	90	100	100	Result Not Submitted
Provincial Public Health Laboratory-3	NE	NE	100	NP	100
Shree Birendra Hospital	NE	VC	NP	100	100
Siddhi Poly Path Lab	NE	NE	NE	NE	NE
Star Hospital	NE	VC	100	NP	100
Sukra Raj Tropical and Infectious Disease Hospital	100	100	NP	100	100
Sooriya Health Care	NE	NE	VC	NP	100
Tribhuvan University and Teaching Hospital	NP	NP	100	NP	100
Trisuli Hospital	NE	NE	NE	NE	NE
Vector Borne Disease Research and Training Centre	90	NA	100	NP	100

Note: NE: Not Established, NP: Not Participated, VC: Validation Completed

Figure 13: Performance of SARS-CoV-2 real time RT-PCR Proficiency test panel in functional laboratories in Bagmati Province



2.8 LABORATORY BIOSAFETY AND BIOSECURITY PRACTICES

Biosafety

All laboratories are following basic laboratory biosafety practices including using PPE and processing all clinical samples in a biosafety cabinet. However, there is no biosafety manual available. Though many laboratories have designated biosafety officers, adequate training and supervision is absent in almost all laboratories. Mostly biosafety training is limited to donning and doffing of PPE. The laboratory staff are not trained in the appropriate and safe use of biosafety cabinets. None of the biosafety cabinets are certified or have any plan in place for their annual maintenance. As most of the samples are collected in virus inactivating virus

transport medium (VTM) the risk is reduced and low while handling these samples. However, a variety of VTMs are in use. There is a need to ensure the laboratories and field personal only use VTM which inactivates the virus.

Biosecurity

Though few laboratories have access control and surveillance camera in place, there is no regular supervision. There is no biosecurity manual or policy available in these laboratories. Most of the laboratories are storing positive samples as far as their storage space allows. The freezers are not secured with lock and key. As most of the samples are collected in virus inactivating virus transport medium (VTM) the risk of handling live virus is reduced.

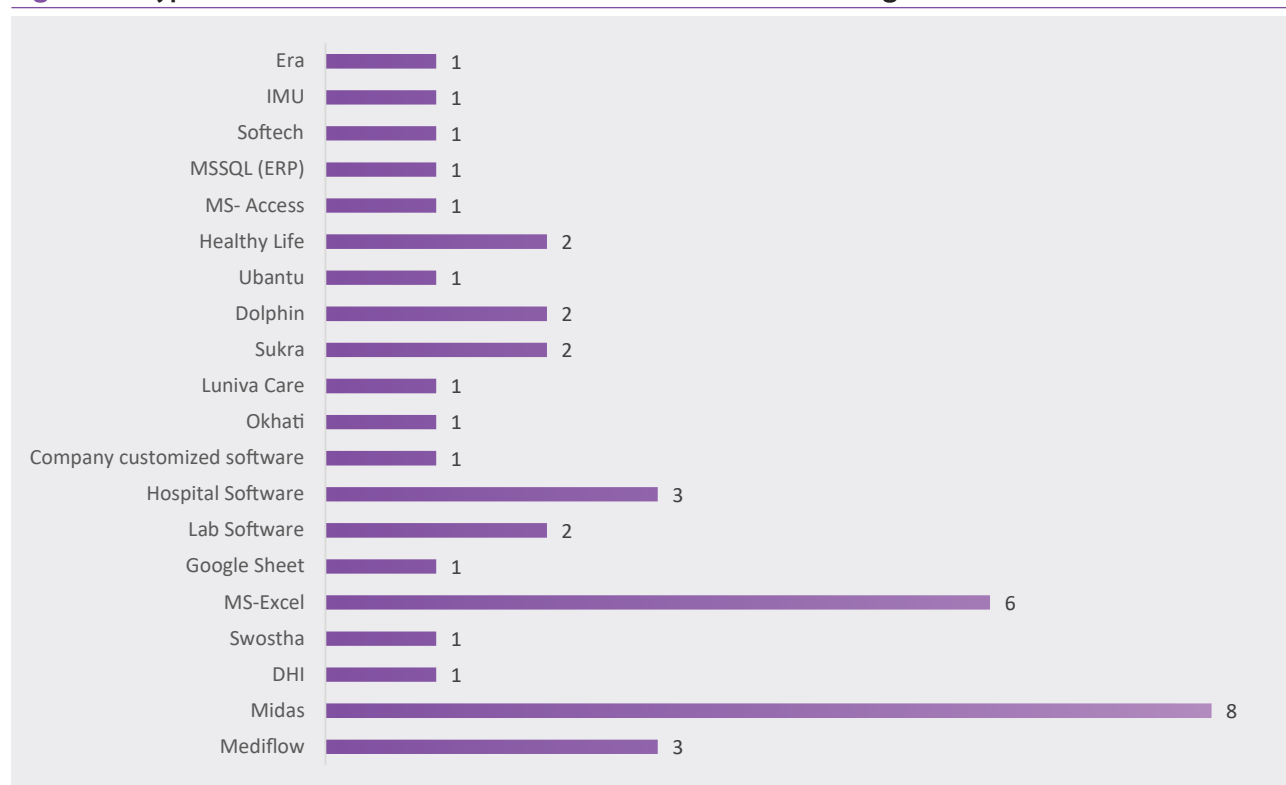
2.9 LABORATORY INFORMATION MANAGEMENT

Table 9: Distribution of Laboratory Information Management of COVID-19 laboratories in Bagmati Province

Name of Laboratory	Availability of computer for data entry (Number)	Type of Database
Alfa Health Care and Diagnostic Centre	2	Mediflow
Alka Hospital	1	Midas
B&B Hospital	Yes	DHI
Bhaktapur Hospital	1	Midas
Bharatpur COVID-19 Diagnostic Lab	5	Mediflow
Bidh Laboratory	8	Swostha
Bir Hospital	3	Mediflow
B. P Koirala Memorial Cancer Hospital	Yes	MS-Excel
Central Diagnostic Laboratory and Research Centre	6	Era
Chitwan Medical College	6	Midas
Decode Genomics & Research Centre	6	Google Sheet
HAMS hospital	2	Midas
International Organization of Migration	Yes	Lab Software
Intrepid Diagnostic Centre	3	Lab Software
Janamaitri Hospital	2	Hospital Software
Kantipur Hospital	2	Company customized software
Kathmandu Medical College	2	Midas
Kathmandu University Teaching Hospital	1	Midas
KGDH Teaching Hospital and Research Centre	3	Okhati
Kirtipur Municipality-TU Biotech Corona Laboratory	1	MS-Excel
Leprosy Mission Nepal Anandaban Hospital	2	MS-Excel
Manmohan Memorial Teaching Hospital	2	Luniva Care
Modern Diagnostic Lab	4	Sukra
Nepal Public Health Laboratory	1	Dolphin
Nepal Armed Police Force Hospital	2	Ubantu
Nepal Korea Friendship Hospital	5	Hospital Software
Nepal Medical College Molecular and Clinical Genetic Lab	1	MS-Excel
Nepal Mediciti Hospital	Collaborate with Medical record	Sukra
Nepal Police Hospital	3	Healthy Life
Paropakar Maternity and Women's Hospital	2	MS-Excel, MS- Access
Patan Academy of Health Sciences	3	Healthy life
Provincial Public Health Laboratory-3	Yes	MS-Excel
Shree Birendra Hospital	2	Hospital Software
Siddhi Poly Path Lab	1	MSSQL (ERP)

Name of Laboratory	Availability of computer for data entry (Number)	Type of Database
Star Hospital	Yes	Dolphin
Sooriya Health Care	5	MIS
Sukra Raj Tropical and Infectious Disease Hospital	Yes	Softech
Tribhuvan University and Teaching Hospital	1	Midas
Trisuli Hospital	Yes	Midas
Vector Borne Disease Research and Training Centre	Yes	IMU (Information Management Unit)

Figure 14: Types of Database Software in COVID-19 laboratories in Bagmati Province



2.10 OBSERVATIONS

- Almost all laboratories are set up outside the institutional infrastructure and housed in rented or temporary buildings.
- Laboratories are disproportionately distributed and mostly clustered in one area or district resulting in inequity of access to testing across districts.
- Facilities are well designed for the molecular diagnostics of COVID-19.
- Local leadership and ownership are there but it is limited to COVID-19 response only.
- No clear plan for sustaining the laboratory or extending the services for other infectious diseases.
- Equipment and consumables are procured by local government or supplied by central government
- A variety of equipment and reagents used in the province. Equipment calibration and maintenance plan is missing in almost all laboratories.
- While all laboratories have at least one trained or partially trained staff member, most staff do not possess any experience in molecular diagnostics which include the lab supervisors.
- There is commendable commitment of laboratory staff. They are doing extra hours of work to reduce turnaround time.
- There is very poor documentation across all laboratories. Though they follow manufacturers instruction for RNA extraction and real time SARS-CoV-2 PCR, no standard operating procedures are available for any laboratory process despite access to national laboratory guidelines from NPHL with templates. Lack of manpower is blamed for poor documentation.
- Laboratory information management system is not adequate. Many laboratories enter data to generate a test report and enter data into the NPHL management information system. However, there are often delays in data entry and report generation and this adversely affects the turnaround time. In addition, they also provide cumulative data and data on positive cases to MoHP (EDCD and HEOC respectively).
- Many laboratories find it difficult to interpret borderline results. As the current national guidelines allow to report a result as positive or negative only. So borderline results are interpreted subjectively and often reported as positive. This has resulted in false positive reports.
- Most of the laboratories have inadequate biomedical management systems. There is no sufficiently sized autoclave to match the workload for decontaminating the biomedical waste. It appears biomedical waste is burned with or without adequately autoclaving. Most of the laboratories lack documentation on biomedical waste management.
- Frequent change of PCR reagents and compatibility of reagents with PCR machine is a concern for laboratory quality.
- It appears most of the laboratories set up for COVID-19 testing will discontinue if COVID-19 testing reduces or the pandemic is over.

2.11 RECOMMENDATIONS

- NPHL should revise the national laboratory guidelines to allow reporting of borderline results as indeterminate or inconclusive rather than leaving subjective interpretation of individual laboratories.
- There is a need for hands on training. WHO is supporting NPHL with weekly online training for COVID-19 laboratories, however, the attendance is poor. The staff of hub laboratories could be trained at NPHL to provide hands on training to other laboratories.
- There is a need to encourage laboratory networking by creating a hub and spoke structure. NPHL supporting a Provincial Public Health laboratory or Medical college or another well-functioning laboratory in the province in turn supporting smaller laboratories. Pairing of Provincial public health laboratories with medical colleges will be useful.
- It is advised to convert at least one laboratory per province and selected medical college laboratories into combined Influenza and SARS-CoV-2 sentinel surveillance laboratories. The new WHO multiplex Influenza- SARS-CoV-2 kits may be useful. Inclusion of Medical colleges may improve SARI surveillance.
- There is a need to issue clear guidelines for biomedical waste management in the laboratories. The laboratories may require support in terms of load appropriate autoclaves. Other partner agencies may be approached for this support.
- Selected laboratories need to be supported for equipment maintenance and calibration to ensure quality. In country training may be organised to create a cadre of biomedical engineers and laboratory technologists for calibration of equipment. Alternatively, one or more agencies may be contracted to provide support.
- As a long-term strategy these selected laboratories may be supported for providing laboratory surveillance and diagnostic services for common epidemic prone, endemic diseases such as Dengue, Leptospirosis and Scrub Typhus. The laboratories could also be utilised for antimicrobial resistance surveillance.



3

INFECTION PREVENTION AND CONTROL AND CLINICAL MANAGEMENT

INFECTION PREVENTION AND CONTROL AND CLINICAL MANAGEMENT

3.1 BACKGROUND

Bagmati Province is one of the seven provinces of Nepal established by the constitution of Nepal as of 20 September 2015. With Hetauda as its provincial headquarter, the province is the home to the country's capital Kathmandu, is mostly hilly and mountainous, and hosts mountain peaks including Gaurishankar, Langtang, Jugal, and Ganesh. Being the most populous province of Nepal, it possesses rich cultural diversity with resident communities and castes including Newar, Tamang, Madhesis, Sherpa, Tharu, Chepang, Jirel, Brahmin, Chhetri and more.

Bagmati province is divided into 13 districts, which is further divided into three metropolitan cities, one sub-metropolitan city, 41 municipalities and 74 rural municipalities.

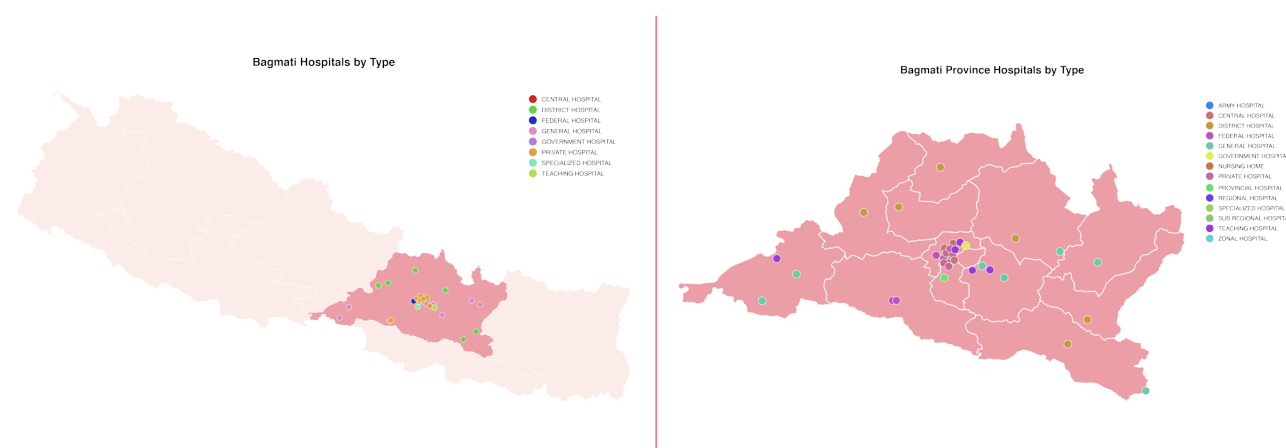
3.2 HEALTH BACKGROUND

According to the National Demographic Health Survey (NDHS) 2016, the Province's Neonatal Mortality (per 1000 live births) stands at 17 and Infant mortality rate (per 1000 live births) stands at 29, both of which are below the national average of 21 and 32, respectively.

3.3 HEALTH FACILITIES BY TYPE

According to the Annual report of Department of Health Services (DoHS) 2018/19, Bagmati Province has 35 public hospitals, 41 Primary Health Care Centres (PHCCs), 641 Health posts and 1417 Nonpublic facilities.

Map 11: Health facilities by type

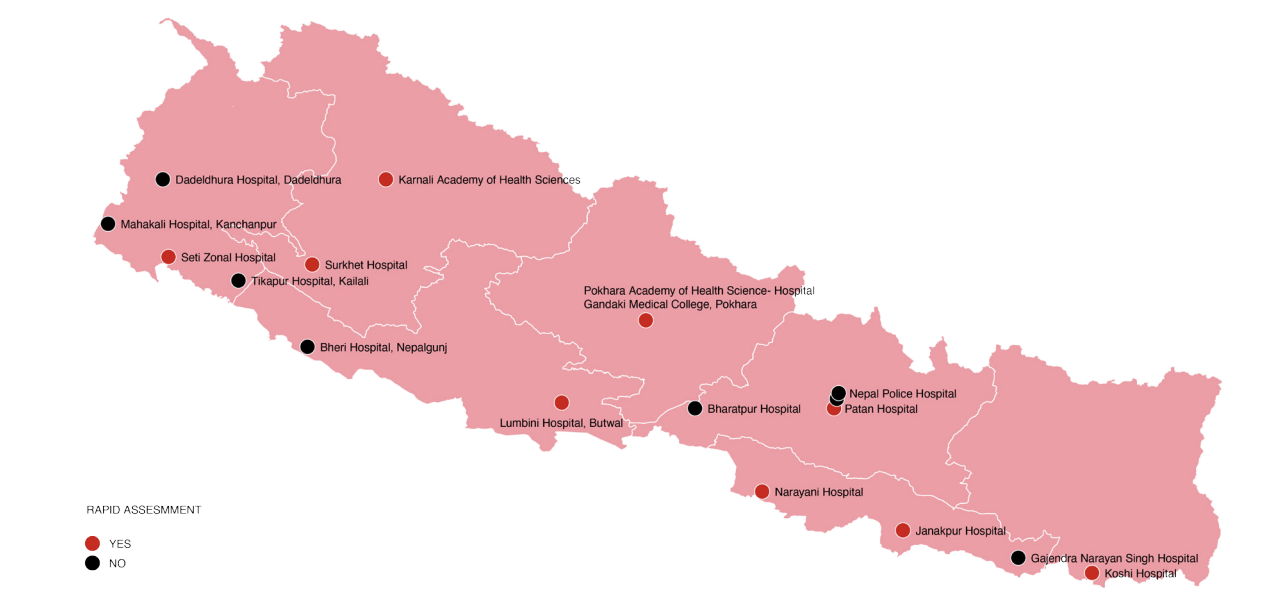


3.4 FINDINGS OF A RAPID ASSESSMENT (RA) FOR COVID-19 READINESS 2020

In April 2020 the Curative Services Division (CSD) of the Ministry of Health and Population (MoHP) led a multi sectoral team to design and develop a rapid assessment tool to assess what

was the then designated 12 COVID-19 Level II Hospitals. In Province 3, four designated Level II Hospitals; Bharatpur Hospital, Armed Police Force Hospital (APFH), Patan Academy of Health Sciences (PAHS) and the Sukraraj Tropical and Infectious Disease Hospital (TEKU) took part in the rapid assessment.

Map 12: Level 2 Hospital in Nepal



The key findings of the rapid assessment as recorded during the self-assessment undertaken at Bharatpur hospital, Sukraraj Tropical and Infectious Disease Hospital (STIDH), Armed Police Force (APF) and Patan Academy of Health Sciences (PAHS) includes the following:

Table 10: Key Findings from RA - Bharatpur Hospital

ICU beds Adult	ICU beds children	Functioning ventilators	Oxygen Supply	COVID-19 designated Nurses	COVID-19 designated MD	IPC Focal Person	IPC program / activities	IPC dedicated budget
20	0	6	Cylinder Concentrator	50	17	Yes	Yes	No
Key Guidance documents in place	Training on COVID-19	Autoclave of alternative treatment technology present	Specific plan in place for patients or family members to mitigate COVID-19 infection					
3/16 present only	Yes	No	No					

Table 10: Key Findings from RA - Sukraraj Tropical and Infectious Disease (STIDH) Hospital

ICU beds Adult	ICU beds children	Functioning ventilators	Oxygen Supply	COVID-19 designated Nurses	COVID-19 designated MD	IPC Focal Person	IPC program / activities	IPC dedicated budget
24	-	8	Cylinder	46	12	Yes	Yes	No
Key Guidance documents in place		Training on COVID-19	Autoclave of alternative treatment technology present		Specific plan in place for patients or family members to mitigate COVID-19 infection			
4/16 in place		No	Yes		No			

Table 10: Key Findings from RA - Armed Police Force (APF) Hospital

ICU beds Adult	ICU beds children	Functioning ventilators	Oxygen Supply	COVID-19 designated Nurses	COVID-19 designated MD	IPC Focal Person	IPC program / activities	IPC dedicated budget
20	-	2	-	74	9	Yes	Yes	No
Key Guidance documents in place		Training on COVID-19	Autoclave of alternative treatment technology present		Specific plan in place for patients or family members to mitigate COVID-19 infection			
6/16 in place		Yes	Yes, present but not functional and/or of sufficient capacity		Yes			

Table 11: Key Findings from RA - Patan Academy of Health Sciences (PAHS)

ICU beds Adult	ICU beds children	Functioning ventilators	Oxygen Supply	COVID-19 designated Nurses	COVID-19 designated MD	IPC Focal Person	IPC program / activities	IPC dedicated budget
21	5	43	Cylinder concentrator	-	-	Yes	Yes	No
Key Guidance documents in place		Training on COVID-19	Autoclave of alternative treatment technology present		Specific plan in place for patients or family members to mitigate COVID-19 infection			
Yes; 16/16 present		Yes	Yes		Yes			

3.5 CURRENT STATUS OF COVID-19 AND NON-COVID-19 HEALTH SERVICE PROVISION

The following table shows the government health facilities and Medical colleges in Bagmati Province providing various health services in context of COVID-19.

Table 12: Health services provided by various government hospitals and medical colleges

Name of Facility	District	Non COVID-19 services		
		Outpatient	MNCH	Surgery
Bharatpur Hospital	Chitwan	✓	✓	✓
STIDH	Kathmandu	✓	-	-
APF Hospital	Kathmandu	✓	X	X
Patan Academy of Health Sciences	Lalitpur	✓	✓	✓
Shree Birendra Hospital	Kathmandu	✓	✓	✓
Dhulikhel Hospital	Kavreplanchowk	✓	✓	✓
Chautara Hospital	Sindhupalchowk	✓	✓	X
Jiri Hospital	Dolakha	✓	✓	✓

Name of Facility	District	Non COVID-19 services		
		Outpatient	MNCH	Surgery
Ramechhap Hospital	Ramechhap	✓	✓	X
Sindhuli Hospital	Sindhuli	✓	✓	-
Hetauda Hospital	Hetauda	✓	✓	✓
Dhadhing Hospital	Dhading	✓	✓	✓
Bhaktapur Hospital	Bhaktapur	✓	✓	✓
Trishuli Hospital	Nuwakot	✓	✓	✓
Rasuwa Hospital	Rasuwa	✓	✓	✓
Bir Hospital	Kathmandu	✓	-	✓
Chitwan Medical College	Chitwan	✓	✓	✓
College of Medical Sciences	Chitwan	✓	✓	✓
Kathmandu Medical College	Kathmandu	✓	✓	✓
Nepal Medical College	Kathmandu	✓	✓	✓
Kist Medical College	Lalitpur	✓	✓	✓
Tribhuvan University and Teaching Hospital	Kathmandu	✓	✓	✓

Table 13: COVID -19 Designated Hospitals – HUB Hospital Details

S No.	Hub Hospitals	COVID-19 Designated Hospitals (Yes/No)	Formation of EMDT
1	TU Teaching Hospital	Yes	Yes
2	Bir Hospital	Yes	Yes
3	Bhaktapur Hospital	Yes	Yes
4	Civil Service Hospital	Yes	Yes
5	Patan Academy of Health Sciences	Yes	No
6	Shree Birendra Hospital	Yes	No
7	Bharatpur Hospital	Yes	No
8	Dhulikhel Hospital	Yes	No

3.6 CURRENT STATUS OF BED CAPACITY AND ESSENTIAL HUMAN RESOURCES FOR HEALTH (HRH)

Table 14: Level II hospital

S.N.	Categories	Bharatpur		STIDH	
		COVID-19 Designated	Non-COVID-19 Designated	COVID-19 Designated	Non-COVID-19 Designated
Bed capacity					
	Bed capacity IPD	175	25		60
	Bed capacity HDU		15		33
	Bed capacity ICU	16			22
Human Resources					
	Total number of MD (Consultants)		113		5
	Number of anesthesiologists/intensivists		6		3
	Total nurses		145 (134 ANM)		60
	Total nurses trained in Critical Care		-		12

S.N.	Categories	APF Hospital		Patan Academy of Health Sciences	
		COVID-19 Designate	Non-COVID-19 Designated	COVID-19 Designate	Non-COVID-19 Designated
Bed capacity					
	Bed capacity IPD	200	110	110	340
	Bed capacity HDU		0		-
	Bed capacity ICU		20	18	-
Human Resources					
	Total number of MD (Consultants)		35		200
	Number of anesthesiologists/intensivists		5		-
	Total nurses		51		500
	Total nurses trained in Critical Care		30		-

Table 15: Establishment of Emergency Medical Deployment Team (EMDT) for COVID-19 Response

EMDT Establishment		
Name of the hospital	Number of team members	Team composition
TU Teaching Hospital	19	2 Consultant 2 Medical officer 2 Senior Staff Nurse 4 Staff Nurse 1 Health Assistant 2 CHWs 4 Attendants 2 unknown position
Bir Hospital	11	2 Physician 6 Staff Nurse 3 Attendants
Bhaktapur Hospital	12	1 Physician 1 Surgeon 1 Medical officer 1 Nursing officer 3 Staff Nurse 1 ANM 1 AHW 3 Attendants
Civil Service Hospital	11	1 Physician 1 Registrar 1 Senior Staff Nurse 3 Staff Nurse 1 OPD Assistant 4 Helper"

Table 16: Training of healthcare workers and support staff

COVID-19 Preparedness and Essential Critical care Training for Nurses and Doctors - Bagmati Province				
Institute	Date	Module I (IPC) 1 day	Module II (CCT) 2 days	Total trained
National Trauma Centre	17-19 June 2020	16		16
National Trauma Centre	21-23 June 2020	16		16
National Trauma Centre	24-26 June 2020	16		16
Sukraraj Tropical and Infectious Disease Hospital	8-10 July 2020	16		16
*Bharatpur Hospital	20-22 Nov 2020	29	16	29
National Health Training Centre (NHTC) - Training of Trainer	4-6 Nov 2020	16	16	16

Note:

*1. Total 29 staff participated in IPC training, of them 16 continued in CCT training at Bharatpur hospital.

2. In training conducted at NHTC, a total 16 trainers were developed.

Table 17: Training on Case Investigation and Contact Tracing (CICT) - Bagmati Province

Institute/Venue	Date	Participants	District
MTot : National Health Training Centre (NHTC)	• 26 June 2020 • 2 July 2020	• 16 • 26	Kathmandu, Lalitpur (included Doctors, Nurses, paramedics, Health administrators and Health education officers)
National Health Training Centre (NHTC)	• 18 August 2020 • 19 August 2020 • 20 August 2020	• 20 • 40 • 23	• Kathmandu • Kathmandu • Kathmandu, Lalitpur, Bhaktapur
Health Office, Kathmandu	• 7 September 2020 • 18 September 2020	• 19 • 10	Nurses, paramedics and public health professionals from various districts

Table 18: Clinical Management COVID-19

Current number of COVID-19 cases in Province 3							
Province 3: COVID -19 Cases (Source: MoHP 30 November 2020)							
Date	Active	ICU	Recovered	Death	Total cases	Recovered & Death	CFR
30 Nov 2020	10602	159	116747	756	128105	117503	0.59

The following information is for the then level II hospital, Bharatpur, Armed Police force, Patan Academy of Health Sciences and Sukraraj Tropical and Infectious disease I Management COVID-19

Table 19: Treatment Modalities available

Name of the hospital	Remdesivir	Hydrocortisone	Convalescent Plasma	Clinical trials	Secondary infections	Others
Bharatpur hospital	Yes	Yes	Yes	-	-	-
STIDH	Yes	Yes	Yes	-	-	-
APF	Yes	Yes	-	Few	Yes	-
PAHS	Yes	Yes	Yes	No	Yes	-

3.7 DISABILITY INCLUSION, REHAB & POST COVID-19 CARE

Table 20: Availability of services for disability inclusion

	Bharatpur hospital	STIDH	APF	PAHS
Accessible facilities (low level beds, transfer board, wheelchair accessible toilet with commode, drinking water within reach, etc.)	Yes	No	No	Yes
Assistive devices available and functional (wheelchair, crutches, etc.)	Yes	Yes	Yes	Yes
Nurses and paramedics trained in basic disabilities inclusion and rehabilitation	Yes	No	No	-
Facility linked to tele/virtual help-desk for disabled people and virtual expert pool – Rehab nurse, physiotherapist, psychologist, speech therapist	If asked by patient, Yes	No	No	-

3.8 CAPACITY TO PROVIDE OXYGEN IN BAGMATI PROVINCE

Information gathered from 27 hospitals

- Chautara Hospital, Sindhupalchowk
- Jiri Hospital, Dolakha
- Ramechap Hospital
- Sindhuli Hospital
- Hetauda Hospital (Gauritar Isolation)
- Dhading Hospital
- Bhaktapur Hospital
- Trishuli Hospital, Nuwakot
- Rasuwa Hospital
- STIDH
- Bharatpur Hospital
- Bir Hospital
- Nepal Police Hospital
- Nepal Armed Police Force Hospital
- National Ayurvedic Research Centre, Kirtipur

Medical Colleges

- Chitwan Medical College
- College of Medical Science
- Kathmandu Medical College
- Nepal Medical College Private Limited Teaching Hospital
- Kist Medical College
- KU Dhulikhel Hospital
- Patan Academy of Health Science
- TU Teaching Hospital
- Manmohan Memorial Isolation Centre
- Shree Birendra Hospital
- Alka Hospital

Table 21: Capacity to provide oxygen by bed

Type of beds across 27 Hospitals	Number of beds
COVID-19 beds capable of delivering low flow O ₂ (5L/min)	Unknown
COVID-19 beds capable of delivering high flow O ₂ not on ICU or HDU (10L/min)	Unknown
No. of HDU beds	153
No. of ICU beds for Covid-19	241
No. of ventilators for COVID-19 patients	101

Table 22: Oxygen Availability

Oxygen supply	Number
Oxygen Plant	5
Oxygen plant under construction	2
Oxygen plant output expressed as number of cylinders per day	unknown
Number of oxygen cylinders available	2000
Number of oxygen concentrators	49
Minimum number of large cylinders available (plant output added to cylinders available)	>2000

OXYGEN SUPPLY AND DEMAND

- Demand based on ICU and HDU capacity delivering oxygen at 10L/min which is equivalent to 2.2 cylinders per day
- Plus designated COVID-19 beds delivering on average 1.5 cylinders per day

Oxygen supply and demand	Number of cylinders
Total oxygen requirement per day*	4684
Number of cylinders available	2000
Gap (-)/Excess (+)	-2684 cylinders

*ward beds using oxygen concentrators if available

4



RISK COMMUNICATION AND COMMUNITY ENGAGEMENT

RISK COMMUNICATION AND COMMUNITY ENGAGEMENT

4.1 DEMOGRAPHIC INFORMATION OF BAGMATI PROVINCE¹

According to the Annual report of Department of Health Services (DoHS) 2018/19, Bagmati Province has 35 public hospitals, 41 Primary Health Care Centers (PHCCs), 641 Health posts and 1417 Non-public facilities.

4.1.1. Ratio

The ratio of men to women is equal in Bagmati Province, fifty percent men and fifty percent women.

4.1.2. Religion

In Bagmati Province, religion encompasses a wide diversity of groups and beliefs. However, its major religion is Hinduism, which accounts for 72%, followed by Buddhism (23%), Christianity (3%), Prakriti (1%) and Islam (1%).

4.1.3. Caste

In Bagmati Province, Tamang is the largest caste having 21% of the total population followed by Brahman-Hill (18%), Chhetri (17%), Newar (17%), Magar (5%), Dalit (3%), Gurung (2%), Tharu (2%), Rai (2%) and others (14%).

4.1.4. Language Spoken

Fifty seven percent of the population speak the Nepali language making it the main spoken language in Bagmati Province. The second most spoken language is Tamang (18%) followed by Newar (12%), Magar (2%), Tharu (1%), Maithili (1%), Gurung (1%), Chepang (1%), Bhojpuri (1%) and others (5%).

4.1.5. Literacy Rate

In Bagmati Province, the literacy rate is 74% which means that 26% of the population still cannot read or write.

4.1.6. Education Level²

There are various education levels in Bagmati Province. They are: Primary Level (31%), Lower Secondary Level (18%), Secondary Level (11%), SLC (12%), Intermediate Level (11%), Beginner (3%), Non-formal (5%), Graduate (6%), Post-graduate and above (2%).

4.2 INFILTRATION OF MASS MEDIA COMMUNICATION

4.2.1. Community Radio

In Bagmati Province, there are a total of 51 radio stations. Some of the radio stations are Radio Chitwan, Radio Upathyaka and Radio Lalitpur. Full detailed information of these radio stations are mentioned in Annex 1.

4.2.2. Source of communication (Access to Radio, TV, Internet and telephone)³

In Bagmati province, 58.6% have access to radio and followed by 54.0% have access to TV and only 10.0% have access to the internet. Similarly, 16.7% have access to landline telephone while 76.1% have access to mobile phone.

4.2.3. Popular Newspaper Channels

There are a total of 405 newspaper channels in Bagmati Province with national, Provincial and local outreach. As per the classification, some of the top ranking newspapers are Gorkhapatra Dainik, Himalayan Times Dainik and

Major religion is Hinduism, which accounts for 72%, followed by Buddhism (23%), Christianity (3%), Prakriti (1%) and Islam (1%).

Nagarik Dainik. Full details of the newspaper available in Bagmati Province are mentioned in Annex 2.

4.2.4. Cell Phone Providers

There are two major cell phone providers in Bagmati Province. They are Nepal Doorsanchar Company Limited (NTC) and Ncell Axiata Limited (NCELL).

4.3 PROVINCIAL LEVEL SPOKESPERSON

Name: Dr. Purusottam Shedai

Designation: PHA (Hospital Development)

Contact number: 9841323924

Email ID: shedaindr@gmail.com

Language spoken: Nepali.

4. Spokesperson for COVID-19 designated hospitals

4.4 SPOKESPERSON FOR COVID-19 DESIGNATED HOSPITALS

There are a total of 53 hospitals in Province 3. All these hospitals are COVID-19 designated hospitals. For each hospital there are different focal/spokespersons. A list with detailed information about these hospitals are mentioned in Annex 3.

4.5 COMMUNITY ENGAGEMENT

4.5.1. Provincial or District Call Centre

There is a national call center at EDCD, Kathmandu which lies in Bagmati Province. The EDCD call center is responding to the calls from all over the country. Therefore, there is no provision of a separate provincial call center in Bagmati Province.

4.5.2. Social Service Operation Organization

The major strong social service operation organizations involved for risk communication in Bagmati Province are:

- Rotary and Lions club.
- Tole Committee
- Tarkeshor Youth Club.

4.5.3. Major Business Groups (Industrial)

The major business groups operating in Bagmati Province who have been supporting the government in disseminating COVID-19 messages are:

- Ncell
- NTC
- Chaudhary Group
- Panchakanya Group

4.5.4. Rumour & Misinformation Monitoring Mechanism

There is no rumour & misinformation Monitoring Mechanism in Province 3.

4.5.5 Media Monitoring

There is no media monitoring in Bagmati Province.

4.6 PRESS BRIEFINGS

There are no press briefings in Bagmati Province in particular. However, the Provincial Government (Ministry of Social Development) of Bagmati Province releases daily situation updates through its website. The media briefing undertaken by the MOHP in Bagmati province has now been reduced from daily briefings to two days per week. The media briefing at MOHP captures rumours, misinformation and concerns. It also answers the best queries on a regular basis. As the MOHP in the Bagmati Province covers more audience than MOSD Bagmati, MOSD Bagmati does not undertake any media briefings.

The media briefings by MOHP can be accessed through the website; <http://covid19.mohp.gov.np>.

Other COVID related information is also displayed by ccmc.gov.np.

4.7 REPORTING

The Ministry of Social Development of Bagmati province prepares situation reports daily with the help of the WHE team at PHEOC. It then shares the information on their website. The situation report is available through the Ministry of Social Development website of Bagmati Province.

4.8 OTHER ACTIVITIES

The Provincial Health Directorate had prepared and disseminated Risk Communication material and posters to all districts and municipalities of Bagmati Province. They did this with the help of an organization called Sundardhoka and presently continue to do so. In order to inform all the municipalities in the district office about Risk communication and CICT, PHD had also organized an orientation program with the help of WHE.

4.9 CHALLENGES

- MOSD Bagmati rely on MoHP regarding RCCE and other COVID-19 related activities as MoSD Bagmati and MoHP/HEOC are both in the same province. As MOHP and CCMC along with other organizations regularly share RCCE activities, the provincial government of Bagmati is highly dependent on them.
- There are certain populations where the reach of RCCE materials are limited including marginalized communities and among wage labourers.
- There is a lack of messaging in local languages such as Tamang, Chepang, Tharu and Newari.

The maximum numbers of cases are reported from Province 3, especially from the Kathmandu valley. As the MOHP and CCMC along with other organizations regularly share RCCE activities, the provincial government of Bagmati is highly dependent on them.

5



OPERATIONS SUPPORT AND LOGISTICS

OPERATIONS SUPPORT AND LOGISTICS

The provincial profile for the Operations Support and Logistics Pillar has been subdivided into the following categories:

- Health Emergency Operations Center
- Provincial Health Emergency Operations Center
- Electronic-Logistic Information Management System
- Points of Entry
- Repurposing of Health Facilities for Isolation beds

Health Emergency and Operations Center

The Health Emergency Operations Center (HEOC) acts as the secretariat of the Ministry of Health and Population during health emergencies, including the COVID-19 pandemic. It is the central communication body for the provincial and local levels, and it also coordinates with affiliated international bodies, NGOs, and other organizations.

The HEOC's operations are currently supported by four WHO staff, and six personnel from the government (medical superintendent, section officer, staff nurse, officer, helper).

Provincial Health Emergency Operations Centers

Provincial Health Emergency Operations Centers (PHEOCs) play an integral part in different areas of health sector preparedness and response readiness, such as hub and satellite hospital network coordination, prepositioning and

replenishing emergency medical logistics, risk assessment, and human resources management, among others.

WHO has deployed a team in all seven province to support the provincial governments in health emergency/disaster preparedness, recovery and response. Each team consists of Field Medical Officers (FMOs), a COVID Surveillance Associate (CSA), an Information Management Assistant (IMA) and a driver.

The major roles of an FMO includes assisting federal and provincial health authorities in the core capacity enhancement of national health security, as well as supporting health emergency/disaster preparedness, recovery and response. An FMO's responsibilities consist of:

- Implementing, monitoring, and assessing existing and planned epidemiologic and laboratory surveillance (event- and indicator-based) mechanisms.
- Establishing and ensuring the efficient functioning of the Public Health Emergency Management Sub-Committees (PHEM-SC) and HEOCs, and their effective coordination, communication and information management functions throughout the disaster/emergency management cycle.
- Maintaining a regular mechanism for the HEOC to coordinate with hub and satellite hospitals, health sector

partners, and other stakeholders so as to collaborate on health sector emergency preparedness and response readiness interventions.

- Establishing, capacitating, maintaining readiness, and efficiently positioning emergency medical deployment teams from hub and satellite hospital networks.

The COVID Surveillance Associate (CSA) is responsible for:

- Maintaining daily communication with key hospitals, ground crossings, and tourist hotels identified by the federal and provincial health authorities to collect information on certain diseases, including COVID-19.
- Following up, maintaining records, and reporting the status of admission, investigation, sample collection and shipment, lab confirmation, clinical status and outcome, and referral or discharge details of identified cases.
- Monitoring, reporting, verifying, and investigating events/incidents associated with COVID-19 and other public health issues in coordination with WHE Field Medical Officers.
- Assisting provincial health authorities in identifying population groups and vulnerable areas that are at high risk of COVID-19 transmission.

The Information Management Assistant (IMA) is responsible for:

- Communicating and coordinating with districts/local bodies/health facilities and other stakeholder partners to collect information and follow-up on potential public health emergencies for the

preparation of situation reports.

- Generating first information reports on public health events/emergencies and reporting them to the WHE FMO and the supervising health authority.
- Updating databases on human as well as logistic and financial resources in close coordination with hub and satellite hospital networks and national/provincial/district/local health authorities. This is done for utilization during the different phases of the health security emergency risk management cycle.

The driver is responsible for:

- Transporting authorized personnel, visitors, and delegates to identified locations within the duty station.
- Translating basic conversations from/to the local language.
- Performing messenger functions, such as delivering various items/commodities, including diplomatic pouches following authorized routing.

Depending on the province, some of the PHEOCs also have government staff working closely with WHO personnel. This has been described in the individual province profile.

Logistic Management Section and Electronic-Logistics Management Information System (eLMIS)

The Logistics Management Section is one of the four units of the Management Division. It is responsible for collecting and analyzing quarterly logistics management information system (LMIS) reports from all the health facilities across the country.

The Logistics Management Section prepares reports and disseminates information in order to:

- Forecast the annual requirements for public health programs, including family planning, maternal, neonatal and child health, HIV and AIDS commodities; vaccines; and essential drugs.
- Help ensure demand and supply of drugs, vaccines, contraceptives, and essential medical and cold chain supplies at all levels.
- Quarterly monitor the national pipeline and stock levels of key health commodities.

The LMIS combines forms and procedures required for collecting and organizing logistic information. It gathers data on the quantities of products dispensed to users, stock levels, stock losses, batch, and expiry, among others. Additionally, it circulates this information, which is required for supply chain management, through the system. The LMIS is an effective tool for inventory control and waste reduction; it also helps in rational as well as decentralized decision-making at federal, provincial, and local levels.

In addition, the LMIS helps to determine order quantities at the facility level; supervise and monitor stocks at the district/provincial level; and forecast, procure, monitor as well as distribute supplies at the federal level.

As for the e-Logistics Management Information System, it was found

that all 55 COVID-designated health facilities had received eLMIS training. However, it came to light that only 33 percent of the hospitals/labs had been providing weekly COVID supply updates. Procurement of commodities is done at different levels: provincial, rural/municipality as well as that of the health facility. Therefore, it is essential for the health facilities, which receive the supplies, to track the data on the availability of commodities. A lack of timely updates on the eLMIS makes forecasting and quantification of supplies difficult. Moreover, the supply of required commodities cannot be ensured in the absence of eLMIS data.

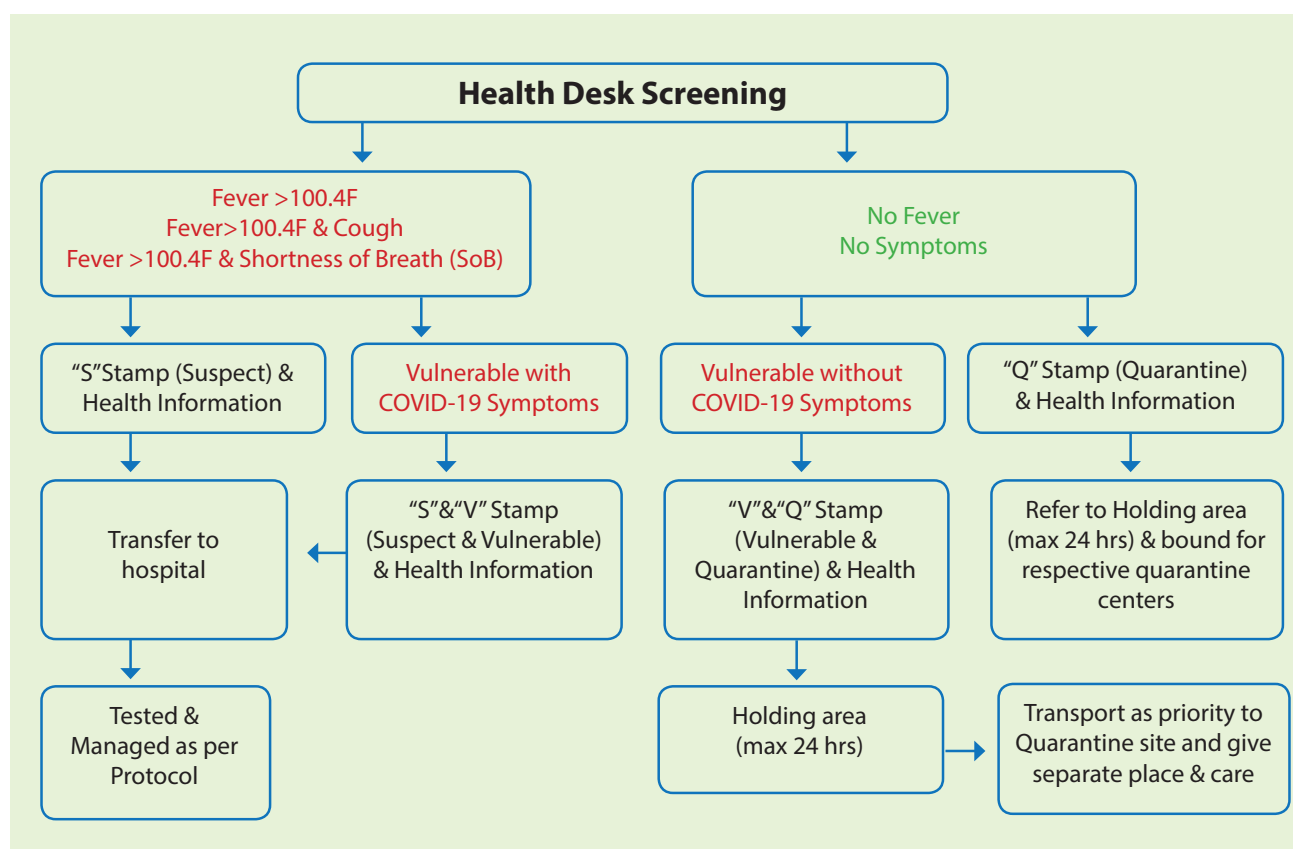
Establishment of health desks at Points of Entry

Nepal is surrounded by India on three sides, and the two countries share a 1,751 km long open border. However, due to the COVID-19 crisis, the borders have been sealed, and thousands of out-of-work Nepali migrants are still stuck in India. The Government of Nepal recently announced that 20 border entry points would be opened for them to return home. The mass movement that the government decision might lead to will require an effective COVID-19 response preparation and management for returnees, including registration and screening at health desks at points of entry, and proper organization of transportation and quarantine.

The key tasks of the health desks are:

- a. Screening
- b. Registering
- c. Triaging, and
- d. Transferring to appropriate settings

The health desk-screening flowchart is given below:



The first step in the process will be temperature screening. Next, the returnees will be observed and asked if they have been showing COVID-19 symptoms. Suspected cases will be given an 'S' (Suspect) stamp; their basic information will be captured through a screening form, after which they will be ushered to a waiting area for transfer to a hospital for testing and management, as per protocol. Similarly, suspect cases with co-morbidities or vulnerable conditions will be given 'S' and 'V' (Vulnerable) stamps. Their basic information will be captured through a screening form, and they will be ushered to the waiting area for transfer to a hospital, where they

will be tested as priority and managed as per protocol. Those with normal temperatures and no symptoms will be given a 'Q' (Quarantine) stamp for transportation to a holding center for normal quarantine. Travelers with normal temperature and no symptoms but with co-morbidities or vulnerable conditions will be given 'Q' and 'V' stamps. They will be sent to a holding center for vulnerable quarantine where they will be provided with enhanced care and support. Each person will be given a colored card/sticker identification card, which they will have to present at their respective facilities.

BAGMATI PROVINCE

Bagmati Province comprises of 13 districts namely Sindhuli, Makwanpur, Chitawan, Ramechhap, Sindhupalchowk, Kavrepalanchowk, Kathmandu, Bhaktapur, Lalitpur, Dolakha, Nuwakot, Dhading, Rasuwa, 3 Metropolitan cities, 1 Sub-Metropolitan City, 41 Urban Municipalities and 74 Rural Municipalities. It has 885 public health facilities including 8 hub hospitals, 34 hospitals, 1 Central Medical Store, 43 Primary Health Care Center, 640 Health Post, 90 Urban Health Center, 61 Community health unit and 18 other health facilities.

5.1 HUMAN RESOURCES AVAILABILITY AT PHEOC

The workforce at Bagmati Province consists of one Field Medical Officer (FMO), five COVID Surveillance Assistant (CSA), one Information Management Assistant (IMA) and one Driver. Internet facility is available and power backup is available through one generator. The office at Bagmati Province has one meeting room, one archival room and storage facilities.

There is one Medical Doctor from SUAAHARA at the PHEOC who is also supporting with the surveillance activities to the government. There is a plan to put few government staff within the PHEOC very soon.

5.2 REPURPOSING OF INSTITUTIONS FOR COVID-19 TREATMENT

Amidst the COVID-19 pandemic, 42 institutions of Bagmati Province which includes 6 training centers and 36 health facilities, are being considered to be converted to COVID-19 wards, for isolation and treatment of cases.

Number of training centers developed	6
Number of potential health facilities	36
Number of Institutions that can be converted to COVID-19 wards	42

The name of health facilities, their level, year of construction and bed capacity for repurposing considered for COVID-19 pandemic in Bagmati province are given in the table below:

Table 23: Health facilities, their level, year of construction and bed capacity repurposed for COVID-19

Health Facility Name	Year of Construction	No. of Beds	After repurposing	Categorised level
Bhaktapur				
Changunarayan PHCC / PH	2067/068	12	29	Primary Hospital B 3
Chitawan				
Jutpani PHCC / PH	2067/068	12	29	Primary Hospital B 3
Khairahani PHCC / PH	2063/064	15	38	Primary Hospital B 3
Shivanagar PHCC / PH	2061/062	15	38	Primary Hospital B 3
Dhading				
Gajuri PHCC / PH	2064 HP BLDG	12	29	Primary Hospital B 3
Salyantar PHCC / PH	2068/069	12	29	Primary Hospital B 3
Charikot PHCC / PH	2065/066	12	29	Primary Hospital A 1
Kathmandu				
Chalnakhel PHCC / PH	2066/067	12	29	Primary Hospital B 3
Mulpani PHCC / PH	2067/068	12	29	Primary Hospital B 3
Sangla PHCC / PH	2070/071 (BEOC 2068/069)	15	38	Primary Hospital B 3

Health Facility Name	Year of Construction	No. of Beds	After repurposing	Categorised level
Kavrepalanchok				
Panchkhal PHCC / PH	2066/067	12	29	Primary Hospital B 3
Lalitpur				
Lele PHCC / PH	2064/065	12	29	Primary Hospital B 3
Lubhu PHCC / PH	2063/064	15	38	Primary Hospital B 3
Manikhel Hospital		15	38	Primary Hospital A 3
Makwanpur				
Shreepur Chhatiwani PHCC / PH	2061/062	15	38	Primary Hospital B 3
Nuwakot				
Kharanitar PHCC / PH	2066/067	12	29	Primary Hospital B 1
Ramechhap				
Khimti PHCC / PH	2067/068	12	29	Primary Hospital B 3
Rasuwa				
Jibjibe PHCC / PH	2066/067	12	29	Primary Hospital B 2
Sindhuli				
Belghari PHCC / PH	2065/066	12	29	Primary Hospital B 3
Kapilakot PHCC / PH	2064/065	12	29	Primary Hospital B 3
Sindhupalchok				
Jalbire PHCC / PH	2064/065	12	29	Primary Hospital B 3
Melamchi PHCC / PH	2071/072 15 bed hos, 2060 PHCC	15	38	Primary Hospital B 2
Total Beds		285	701	

5.3 eLMIS REPORTING STATUS

Regarding eLMIS reporting status of Bagmati Province, only 50% of the designated COVID-19 labs/hospitals with access to eLMIS has updated it weekly. eLMIS reporting status of COVID-19 designated hospitals/labs in this province is summarized in the table below:

Bagmati Province eLMIS update data	
No. of COVID-19 designated labs/hospitals updating eLMIS weekly	4
No. of COVID-19 designated labs/hospitals not updating eLMIS weekly	6
No. of COVID-19 designated labs/hospitals without eLMIS access	11

The last login details of COVID-19 designated labs/hospitals in this province are as follows:

S. No.	Hospitals/Labs	Last log in details	Last transaction details
1	Sukraraj tropical	30-Apr-20	No transaction
2	National Trauma Center	02-Nov-20	
3	Bir Hospital	Real time	Real time
4	TUTH	07-Jul-20	05-Jun-20
5	APF hospital	Real time	Real time
6	Bharatpur Hospital	Real time	Real time
7	Patan Academy of Health Sciences	Real time	Real time
8	Provincial lab	15-Jul-20	15-Jul-20
9	Vayodha Hospital, Balkhu	No eLMIS access	
10	Megha Hospital, Lalitpur	No eLMIS access	
11	Kantipur Hospital, Subidhanagar	No eLMIS access	
12	Janamaitri Hospital, Balaju	No eLMIS access	

S. No.	Hospitals/Labs	Last log in details	Last transaction details
13	KDC General Hospital	No eLMIS access	
14	Sarvanga Swasthya Sadan Hospital	No eLMIS access	
15	Scheer Memorial Adventist Hospital	No eLMIS access	
16	Manmohan Cardiothoracic Vascular and Transplant Center	No eLMIS access	
17	Sahid Gangalal Hospital	13-Aug-20	12-Jun-20
18	Naradevi Ayurvedic Hospital	No eLMIS access	
19	Sahid Dharmabhakta Organ Transplant Centre	No eLMIS access	
20	Mulpani Hospital	No eLMIS access	
21	Kanti Children Hospital	7-Oct-2020	2020/05/19

5.4 ESTABLISHMENT OF HEALTH DESK AT POINT OF ENTRY (POE)

EDCD has allocated budget to establish permanent Health Desk in the following sites as mentioned in the table below.

S No.	Health Desk	District
1	Tribhuvan International Airport	Kathmandu
2	Tato Pani Health Desk	Sindhupalchowk
3	Rasuwigadi Health Desk	Rasuwa

WHO Country Office for Nepal in coordination with the EDCD has supported to establish temporary health desk at the domestic and international terminal at the Tribhuvan International Airport. The construction work has been completed and will be handed over to the government soon.

6



PARTNER COORDINATION

6

PARTNER COORDINATION

RISK COMMUNICATION & COMMUNITY ENGAGEMENT

Distribution of IEC/BCC materials at the health facility level and public institutions, including posters, leaflets, brochures and reprinting of materials by NHEICC and other EDPs.

Audio-Visual Communication including public service announcements on FM stations, establishment of a hotline to provide service to municipalities on COVID-19 relief/response services.

Web portal and mobile application with Ministry of Health for epidemic surveillance and response.

Partners: ACF, AIN, BNMT, CARE, Caritas, FAIRMED, FHI 360, HI, IOM, KOSHISH, Plan International, Tdh Foundation Switzerland, VSO Nepal, WATERAID Nepal, World Vision International Nepal, UNICEF, UNFPA, WHO, Ncell/NTC, GF/SF, Water Aid, IFRC/NRCS, ILO, DFAT, WB

NATIONAL LABORATORIES

Capacity building including Training of trainers on PPE use/IPC and sample collection, packaging and transport for COVID19 to lab staff from COVID-19 diagnostic sites.

Procurement and handover of over 100,000+ RT-PCR test kits to MoHP.

Partners: FAIRMED, FHI 360, KOICA, WARUN, WHO, USAID, GIZ, The Global Fund/Save The Children, CMDN, DFID, WHO, Gates Foundation, DFID

POINTS OF ENTRY, INTERNATIONAL TRAVEL AND TRANSPORT

Capacity Strengthening and establishing of health desks located at multiple POEs for screening of returning migrants. The measures

taken will contain, improve and propose a model for better management of the WASH facilities and making PPE items and noncontact thermometer available for screening at the POEs.

Participatory mobility mapping along the border area includes volunteers and public health professionals mobilized to understand the flow of people and identify vulnerability. Partners plan to produce a map which then can be used for targeted response.

Partners: IOM, Nepal Redcross Society, Plan International, World Vision International Nepal, UNICEF, USAID, WHO

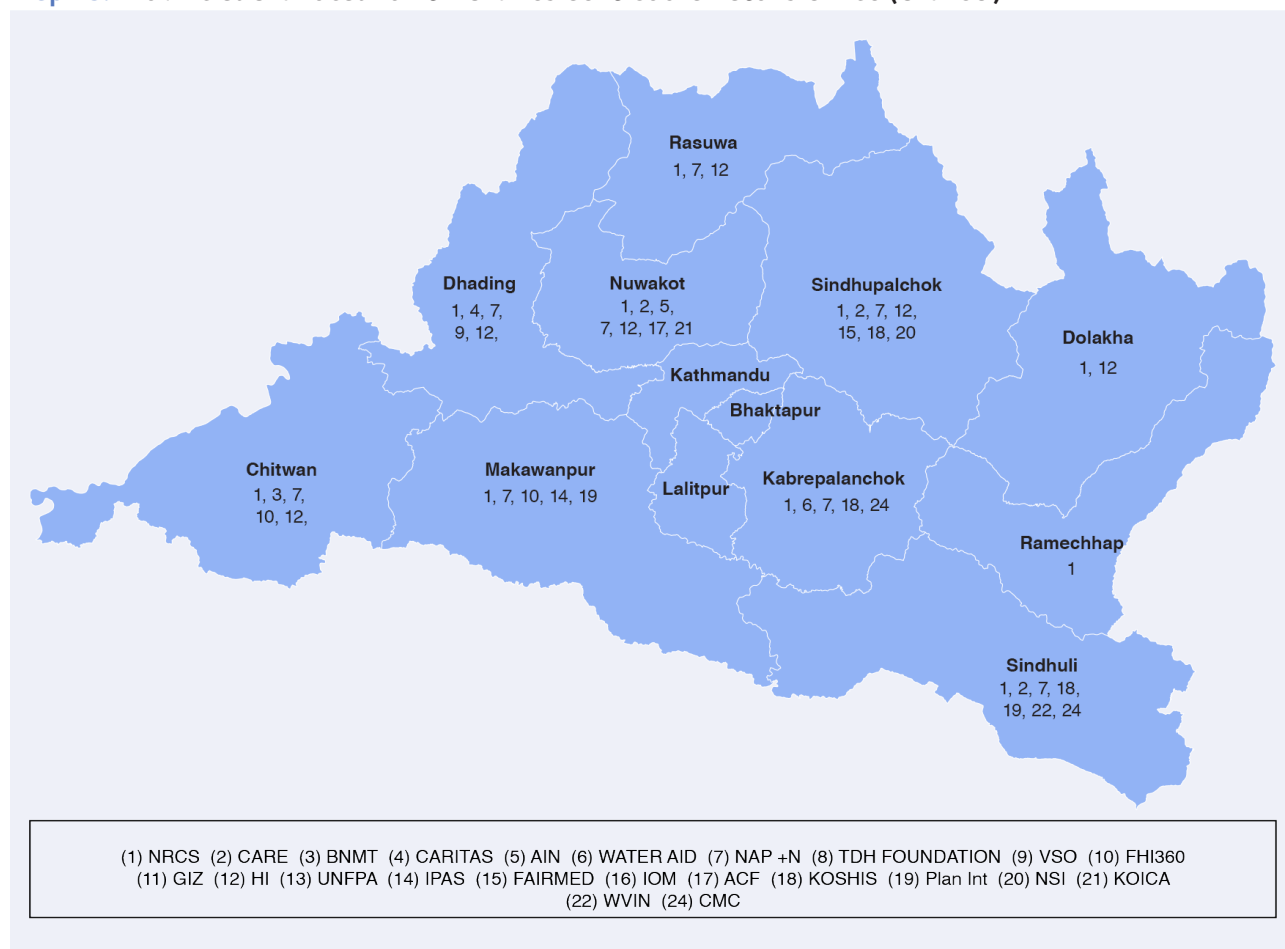
INFECTION PREVENTION AND CONTROL

Distribution of PPE and commodities including alcohol based hand rub, IR thermometer, liquid hand washing soap, soap dispensers, disposable gowns, head protectors, sterile and non-sterile gloves and surgical gloves, disinfectants, testing kits (including RT PCR), infrared thermometer, KN95 Masks, surgical masks, and eye goggles.

Support to caregivers and healthcare workers including training of trainers on PPE use/IPC and sample collection, packaging, and transport for COVID19 to lab staff from COVID10 diagnostic sites.

Risk assessment and preventative education in support of caregivers and communities on COVID-19.

Partners: ACF, Caritas Nepal, FAIRMED, FHI 360, HI, KOICA, NAP+N, IFRC/Nepal Redcross Society, Plan International, Tdh Foundation Switzerland, WATERAID Nepal, World Vision International, WHO, GIZ, CMDN, USAID, UNFPA, KOICA, Oxfam, UNICEF, DFID, WB, GAVI

Map 13: Provincial UN Focal Point – UN Resident Coordinator's Office (UNRCO)

CASE MANAGEMENT

Orientation for caregivers/health workers of COVID patients with disabilities on how to provide personal assistance during the treatment period.

Partners: HI, AIN, WHO, USAID, The Global Fund, GIZ, UNICEF, IOM, DFID, WB

Daily monitoring of selected hospitals for data on OPD attendance, respiratory symptoms, clinical diagnosis, admissions, suspected COVID cases, and lab test results.

Partners: BNMT, FAIRMED, UNICEF, PACT Inc, IOM, USAID, GIZ, IFRC/NRCS

EPIDEMIOLOGY CASE INVESTIGATION AND CONTACT TRACING (CICT)

Assessment of Quarantine sites via real time data collection using KOBO. Partner support in Bagmati Province also includes a Case Investigation and Contact Tracing (CICT) training package developed with the support of master trainers from NHTC and EDCCD.

Enhanced real-time Surveillance through EWARS includes a new daily reporting module developed. This also includes training of staff and 17 surveillance associates.

OPERATIONAL SUPPORT AND LOGISTICS

Establishment of structures including temporary health desks and physically accessible Quarantine Centres and Isolation wards.

Quarantine facility support and Establishment of washing stations and other key structures at health facilities.

Partners: AIN, Caritas Nepal, HI, BNMT, FAIRMED, FHI 360, IPAS, Nepal Redcross Society, Nick Simmons Foundation International, Plan International, World Vision International, ADB, IOM, USAID, UNICEF, DFAT, UNFPA, KOICA

MENTAL HEALTH AND PSYCHOSOCIAL SUPPORT

Communications and Telehealth including dissemination of psychosocial information through media, individual tele-counseling and mental health services from mental health experts, including assigned experts and experienced psychosocial counsellors, via a toll-free number.

Psychological First Aid (at quarantine and isolation centres) through telehealth and through socially distanced support.

Capacity building and stress management to the frontline workers, health workers, security forces and I/NGO staff which includes providing a Training of Trainers (ToT) on stress management. This includes supervision and coaching to medical officers in project implemented districts.

Radio programs broadcast on psychosocial and mental health related topics, which includes 2 episodes per week of Jiwan Rakchya airing on CIN, and 3 episodes (2 on children's and 1 in GBV issues) produced and broadcasted.

Supply of psychotropic medicines in support of psychiatric service and in coordination with concerned municipalities and health facilities.

Partners: CMC, HI, KOSHISH, Nepal Redcross Society, Tdh Foundation Switzerland

CONTINUITY OF ESSENTIAL MEDICAL SERVICES

Human resource support for HIV programming for COVID19.

Financial support providing essential medical items for spinal cord injury patients.

Partners: FAIRMED, HI, KOSHISH, Nick Simmons Foundation International, ADB, UNFPA, USAID, UNICEF, DFAT, WVIN, IPAS, GIZ

WATER AND SANITATION HYGIENE (WASH)

Technical assistance to MoHP management division in support of Water, Sanitation and Hygiene facilities and programming for healthcare facilities.

Construction of handwashing stations placed in strategic positions throughout Bagmati Province's health facilities.

Partners: UNICEF, KIRDARC, ENPHO, RVWRMP, NEEDS, RDC, SAC, BEE, BWSN, Campaign, JJYC, CDS, Everest Club, FOHREN, HRDC, IDS, JIDS, Kopila valley, KVS, Lumanti, MCDC, NBS, PACE, PRAG, PTYSM, RDC, Relief Nepal, RRPK, RYC, Sabal, SAC, SAHAS, SUYUK, WEL, GWT, UN-Habitat, UNDP, WFP, IOM, WHO, Nepal Red Cross Society, British Red Cross, ACF, AAN, Blinknow, Care, CRS, CAWST, DCA, DFAT, Felm, GiZ, GNI, Helvatas, LWF, Mercy Corps, NCV, Oxfam, Phase, Plan Int., Practical Action, Save the Children, USAID, Water Aid, WHH, WVI, WTW, ME, SNV

COORDINATION PLANNING AND MONITORING

Coordination and planning between federal, provincial and local government in the provision of female-friendly COVID-19 quarantine facilities.

Policy and planning strengthening through technical support to the Nepal Law Society, resulting in the hosting of discussions with the Legislation Management Committee of the National Assembly on the amendment of the Contagious Diseases Act. Partners seek to support amendment of the law, which will provide federal, provincial and municipal governments with greater clarity on their roles and functions in response to and managing epidemics.

Partners: FAIRMED, HI, Tdh Foundation Switzerland, USAID, GIZ, DFID, UNFPA, WHO, DFAT, GF/SCI, IFRC/NRCS, CG, EU

PROVINCEWIDE SUPPORT

Kathmandu: FHI 360, BNMT, HI, AIN, IOM, NAP+N, Nepal Red Cross Society, Tdh Foundation Switzerland, WARUN, World Vision International Nepal, USAID, GIZ, Water Aid

Bhaktapur: Nepal Redcross Society, NAP+N, FHI 360, KOICA, CMDN

Lalitpur: Nepal Redcross Society, AIN, Caritas Nepal, KOSHISH, NAP+N, FAIRMED Foundation Nepal, FHI 360, KOSHISH

NATIONWIDE SUPPORT

Kathmandu: ADB, ADRA Nepal, Chaudhary Group, CMDN, DFAT, DFID, EU, FHI 360, Gates Foundation, GAVI, GIZ, ILO, IOM, Ncell, Nick Simmons Foundation Institute, The Global Fund/ Save the Children, UNICEF, WHO, World Bank, German Dev. Cooperation / KfW, KOICA, SDC, USAID, UNFPA, UNDP, WFP

ANNEXES

Annex 1: Radio Station available in Bagmati Province

S.N	Station Name	Freauquency	Watt	District	Contact Person	Number
1	Radio Chitwan	94.6 MHz	1000	Chitwan	Pratap Dallakoti	9845055203
2	Radio Narayani	105.2 MHz	500	Chitwan	Rabindra Adhikari	9845212500
3	Radio Arpan	104.5 MHz	100	Chitwan	Bedprasad Acharya	9855058750
4	Radio Dhruvatar	89.8 MHz	500	Chitwan	Dinesh Kumar Thapaliya	9855059224
5	Radio Palung	107.2 MHz	50	Makwanpur	Rajendra Subedi	9851091615
6	Radio Makwanpur	101.3 MHz	500	Makwanpur	Ramani Dahal	9845031561
7	Radio Nikash	93.4 MHz	100	Makwanpur	Sunil Khadka	9845103561
8	Radio Aawaz	88.8 MHz	100	Makwanpur	Bibash Amatya	9841769668
9	Shakti FM	103.5 MHz	100	Makwanpur	Manohar Dhakal	9845070555
10	Radio Janasanchar	107.9 MHz	100	Bhaktapur	Suresh Prasad Sayanju	9841200759
11	Radio Upathyaka	87.6 MHz	100	Kathmandu	Shree Ram Tiwari	9851001230
12	Radio Newa F.M	106.6 MHz	100	Kathmandu	Shata Raj Shakya	9841180974
13	Mero FM	93.5 MHz	500	Kathmandu	Bal Ram Shrestha	9851054004
14	Metro FM	94.6 MHz	500	Kathmandu	Ram PrashadPaudel	01-4232738
15	Radio ECR FM	104.2 MHz	500	Lalitpur	Astaman Kise Maharjan	9860949313
16	Radio Sagarmatha	102.4 MHz	1000	Lalitpur	Saroj Kafle	01-5153050
17	Radio Lalitpur	100.9 Mhz	100	Lalitpur	Amritnath Timalisina	9851108085
18	Radio Namobuddha	106.7 MHz	100	Kavre	Bhakta Syantang	9841465646
19	Radio ABC	89.8 MHz	500	Kavre	Mohan Bista	9741105199
20	Madhyapurba FM	104 MHz	100	Kavre	Tulasa Basnet	9851099161
21	Grace FM	107.6 MHz	100	Kavre	Keshav Luitel	9841331348
22	Prime F.M	104.5 MHz	100	Kavre	Raghunath Sapkota	9851038965
23	Radio Dhading	106 MHz	500	Dhading	Gopal Tiwari	9841588222
24	Radio Loktantra	89.4 MHz	500	Dhading	Deepak Koirala	9851061795
25	Radio Trishuli FM	105.6 MHz	30	Dhading	Gopal Tiwari	9841588222
26	Krishi Radio	105 MHz	50	Dhading	Saroj Poudel	9851083657
27	Radio Bihani	97.6 MHz	500	Dhading	Sudarshan Khatiwada	9851104096
28	Radio Rajmarga	92.1 MHz	100	Dhading	Narayan Chandra Subedi	9841703945
29	Krishi FM	101.5 MHz	50	Dhading	Saroj Poudel	9851083657
30	HajurKo Radio	102.1 MHz	100	Ramechhap	Deepak Ghimire	9754203327
31	Radio Tifadi	99.1 MHz	250	Ramechhap	Laxmi Devi Gurung	9851131725
32	Radio Ramechhap	95.8 MHz	100	Ramechhap	Ram Babu Giri	9744007878
33	Radio Kairan FM	96.4 MHz	100	Ramechhap	Dev Kumar Sunar	9841666831
34	Radio Likhu	91.3 MHz	100	Ramechhap	Dev Kumar Sunar	9841666831
35	Radio Sindhuligadhi	92 MHz	500	Sindhuli	Dwarika Kafle	9844040390
36	Radio Siddhababa	98.4 MHz	500	Sindhuli	Kamal Baral	9851009092
37	Nuwakot FM	106.8 MHz	100	Nuwakot	Shree Ram Adhikari	9741192121

S.N	Station Name	Frequency	Watt	District	Contact Person	Number
38	Radio Jalapa	104.5 MHz	100	Nuwakot	Jagadish	9841752054
39	Radio Abhiyan	103.4	500	Nuwakot		9851033151
40	Radio Trishuli	88.4 MHz	100	Nuwakot	Kapildev Khanal	9851093290
41	Radio Sindhu	105 MHz	100	Sidhupalchowk	Ratna Shrestha	9841273218
42	Radio Melamchi	107.2 MHz	100	Sidhupalchowk	Saroj Dhungana	9841744802
43	Sindhu FM	102.8 MHz	100	Sidhupalchowk	Ratna Shrestha	9841273218
44	Radio Sunkoshi	105.6 MHz	100	Sidhupalchowk	Yagya Dangal	9841510980
45	Radio Rasuwa	102.1 MHz	100	Rasuwa	Deepak Lama	9841893288
46	Radio Langtang	90.3 MHz	500	Rasuwa	Geeta Neupane	9851069072
47	Radio Gosaikunda	96.5 Mhz	100	Rasuwa	Kapildev Khanal	9851093290
48	Radio Kalinchowk	106.4 MHz	100	Dolakha	Dil Bahadur KC	9744007633
49	Radio Sailung	104 MHz	250	Dolakha	Hom Pathak	9741156690
50	Radio Hamro	103.4 MHz	250	Dolakha	Kamal Shrestha	9741043031
51	Radio Bhimeshwar	90.8 MHz	500	Dolakha	Umesh Bhandari	9851121607

Annex 2: Newspaper available in Bagmati Province

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
1	Janasawal Dainik	Kathmandu	Bagmati	Daily	National	Ka
2	Himalayan Times Dainik	Kathmandu	Bagmati	Daily	National	Ka
3	Aarthik Abhiyan Dainik	Kathmandu	Bagmati	Daily	National	Ka
4	Karobar Dainik	Kathmandu	Bagmati	Daily	National	Ka
5	Prabhav Dainik	Kathmandu	Bagmati	Daily	National	Kha
6	Rajdhani Dainik	Kathmandu	Bagmati	Daily	National	Ka
7	Sourya Dainik	Kathmandu	Bagmati	Daily	National	Ka
8	Madhyana Dainik	Kathmandu	Bagmati	Daily	National	Kha
9	Naya patrika Dainik	Kathmandu	Bagmati	Daily	National	Ka
10	The Rising Nepal Dainik	Kathmandu	Bagmati	Daily	National	Ka
11	Gorkhapatra Dainik	Kathmandu	Bagmati	Daily	National	Ka
12	Annapurna Post Dainik	Kathmandu	Bagmati	Daily	National	Ka
13	The Himalayan Times Dainik	Kathmandu	Bagmati	Daily	National	Withheld
14	Nagarik Dainik	Kathmandu	Bagmati	Daily	National	Ka
15	Republic Dainik	Kathmandu	Bagmati	Daily	National	Ka
16	City Post Dainik	Kathmandu	Bagmati	Daily	National	Kha
17	Sandhyakalin Dainik	Kathmandu	Bagmati	Daily	Local	Kha
18	Sanjha City Times Dainik	Kathmandu	Bagmati	Daily	Local	Kha
19	Naya Sadak Dainik	Kathmandu	Bagmati	Daily	Provincial	Ga
20	Nepabhasa Times Dainik	Kathmandu	Bagmati	Daily	Local	Kha
21	Golmech Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
22	Daman Post Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
23	Jankari Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
24	Dabab Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
25	Divyadarshan Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
26	Janavet Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
27	Bisesh Khabar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
28	Tamakoshi Sandesh Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
29	Yugsamaad Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
30	Deshbikash Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
31	Nawajaprahar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
32	Janaprahar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
33	Rastyabani Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
34	Democracy Khabar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
35	Desh Darpan Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
36	Aalochana Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
37	Rahasya Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
38	Peoples Review Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
39	United Post Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Gha
40	Nava Janata Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
41	Review Nepal saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
42	Roadmap Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
43	Gorkha Express	Kathmandu	Bagmati	Weekly	Provincial	Ka
44	Thokshila Darpan Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
45	Biduth Sansar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
46	Japrabhav Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Withheld
47	Routahat Times Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
48	Yugabyatha Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
49	Deshprem Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
50	Amrit Bazar Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
51	Pratipatra Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Withheld
52	The Universal Times Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
53	Nepalipan Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
54	Prawardhan Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
55	Metro Today Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
56	Chahara Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
57	Abhiyan Times Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
58	Nepalipatra Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
59	Resunga Today Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
60	Janadharana Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
61	Naya Content Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
62	Sudama Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
63	Laawanya Sandesh Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
64	Taaja Khabar Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
65	Janjibro Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
66	Rajtilak Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
67	Janabhawana Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
68	Sanghu Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
69	Nepalbhumi Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
70	Arpan Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
71	Kshepyastra Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
72	Deshantar Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
73	Dayari Express Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
74	Charcha Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
75	Filmi Khabar Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
76	Samayabadda Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
77	Sasakiya Sudhar Saptahik	Kathmandu	Bagmati	Weekly	National	Ga

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
78	Mahima Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
79	Share Bazaar Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
80	Naya Bikalpa Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
81	Chalfal Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
82	Janaastha Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
83	Prathispardha Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
84	Naya Bidhroha Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
85	Satyagraha Saptahi	Kathmandu	Bagmati	Weekly	National	Ga
86	Janudhwaar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
87	Abhiyan Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
88	Budhabar Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
89	Madheshbani Saptahik	Kathmandu	Bagmati	Weekly	National	Ka
90	Saptahik Bimarsha	Kathmandu	Bagmati	Weekly	National	Ka
91	Up to Date Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Kha
92	Bahubichar Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
93	Bhumika Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
94	Lokprabaha Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
95	Ramechhap Post Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
96	Deshraksha Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
97	Awadharana Saptahik	Kathmandu	Bagmati	Weekly	Local	Gha
98	Sahid Saptahik	Kathmandu	Bagmati	Weekly	Local	Gha
99	Duniyako Khabar Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
100	Antarjilla Saptahik	Kathmandu	Bagmati	Weekly	Local	Gha
101	Janaprardasak Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld
102	Nawapath Saptahik	Kathmandu	Bagmati	Weekly	Local	Similar
103	Kirtipur Darpan Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
104	Nawasakti Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
105	Path-prardasak Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
106	Paschimpost Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
107	Nepal Tiger Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
108	Divya Chakshu Saptahik	Kathmandu	Bagmati	Weekly	Local	Ka
109	Shrawan Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld
110	Sabdha Brahma Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld
111	Lahana Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
112	Jwaljalapa Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
113	Kirtipur Sandesh Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
114	Alert Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
115	Swatantra Sanchargram	Kathmandu	Bagmati	Weekly	Local	Ga
116	Apshara Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
117	Janajati Saptahik	Kathmandu	Bagmati	Weekly	Local	Gha
118	Mulbato Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld
119	Krisi Saptahik	Kathmandu	Bagmati	Weekly	Local	Similar
120	Prakash Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
121	Sancharbani Saptahik	Kathmandu	Bagmati	Weekly	Local	Similar
122	Bishwa Aawaj Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
123	Sukrawaayaa Tansapou	Kathmandu	Bagmati	Weekly	Local	Kha
124	Janasuchak Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
125	Chitran Saptahik	Kathmandu	Bagmati	Weekly	Local	Gha
126	Greater Nepal Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
127	Aragami Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld
128	Swarnim Sandesh Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
129	Swarnkshar Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
130	Aajako Sikhsha Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
131	New Times of Nepal Saptahik	Kathmandu	Bagmati	Weekly	National	Withheld
132	Rastya Samrakshan Saptahik	Kathmandu	Bagmati	Weekly	Local	Withheld
133	Akhabar Times Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
134	Ashan Bazar Saptahik	Kathmandu	Bagmati	Weekly	National	Withheld
135	Rato Khabar Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Withheld
136	Janaakash Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
137	The Nepal Weekly Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Withheld
138	Punarprayas Saptahik	Kathmandu	Bagmati	Weekly	Local	Similar
139	Sumnima Saptahik	Kathmandu	Bagmati	Weekly	Local	Ga
140	Tikijhya waa:pou	Kathmandu	Bagmati	Weekly	Local	Withheld
141	Khaskhabar Saptahik	Kathmandu	Bagmati	Weekly	National	Gha
142	Naya Khabar Kagaj Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ga
143	Naya Prakash Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
144	Agulto Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
145	Japrawaha Saptahik	Kathmandu	Bagmati	Weekly	Provincial	Ka
146	Kapan Baneshwar Saptahik	Kathmandu	Bagmati	Weekly	National	Kha
147	Bargadrusti Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
148	Sukrabar Saptahik	Kathmandu	Bagmati	Weekly	National	Ga
149	Arko Aakha Saptahik	Kathmandu	Bagmati	Weekly	Local	Kha
150	Sahara Times Pakshik	Kathmandu	Bagmati	Biweekly	National	Kha
151	Janaprasasan Pakshik	Kathmandu	Bagmati	Biweekly	National	Ga
152	New Spotlight Pakshik	Kathmandu	Bagmati	Biweekly	National	Kha
153	Business Plus Pakshik	Kathmandu	Bagmati	Biweekly	Provincial	Withheld
154	Samaya Sandarva Pakshik	Kathmandu	Bagmati	Biweekly	Local	Kha
155	Layak Pakshik	Kathmandu	Bagmati	Biweekly	Local	Kha

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
156	Pejathri Pakshik	Kathmandu	Bagmati	Biweekly	Local	Kha
157	Baani Pakshik	Kathmandu	Bagmati	Biweekly	Local	Ga
158	Kadar Pakshik	Kathmandu	Bagmati	Biweekly	Local	Ga
159	Agnibaan Pakshik	Kathmandu	Bagmati	Biweekly	Local	Kha
160	Music Khabar Pakshik	Kathmandu	Bagmati	Biweekly	National	Kha
161	Sansak Masik	Kathmandu	Bagmati	Sahityik	Local	Ka
162	Mundhum Masik	Kathmandu	Bagmati	Monthly	National	Kha
163	Goraksha Nikhilbani Masik	Kathmandu	Bagmati	Monthly	National	Kha
164	Loklaya Masik	Kathmandu	Bagmati	Monthly	National	Kha
165	Sarada Masik	Kathmandu	Bagmati	Sahityik	National	Kha
166	Living with ICT masik	Kathmandu	Bagmati	Monthly	National	Kha
167	Milap Masik	Kathmandu	Bagmati	Monthly	National	Kha
168	Nabin Sandesh Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
169	Artha ra Rojgar Masik	Kathmandu	Bagmati	Monthly	National	Kha
170	National Mirar Masik	Kathmandu	Bagmati	Monthly	National	Withheld
171	Swathya Sandesh Masik	Kathmandu	Bagmati	Monthly	National	Withheld
172	Antarastya Manch Masik	Kathmandu	Bagmati	Monthly	National	Withheld
173	Sopan Masik	Kathmandu	Bagmati	Monthly	National	Ka
174	Nepali Sarokar Masik	Kathmandu	Bagmati	Monthly	National	Ga
175	Nilo Aakash Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
176	Hamro Sampada Masik	Kathmandu	Bagmati	Monthly	National	Ka
177	New Business Age Masik	Kathmandu	Bagmati	Monthly	Provincial	Ka
178	Apanga Aawaj Masik	Kathmandu	Bagmati	Monthly	Provincial	Ka
179	The Public Masik	Kathmandu	Bagmati	Monthly	National	Ka
180	Pustaklaya Awaj Masik	Kathmandu	Bagmati	Monthly	National	Ka
181	Helth Today Masik	Kathmandu	Bagmati	Monthly	National	Kha
182	Naya Satmarg Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
183	Samayabodh Masik	Kathmandu	Bagmati	Monthly	National	Ka
184	Sakarattmak Lakshya Masik	Kathmandu	Bagmati	Monthly	National	Ga
185	Agnichakra Rastya Masik	Kathmandu	Bagmati	Monthly	National	Withheld
186	Aarthik Bazaar Masik	Kathmandu	Bagmati	Monthly	National	Kha
187	Mujura Masik	Kathmandu	Bagmati	Monthly	National	Withheld
188	Samunnati Masik	Kathmandu	Bagmati	Monthly	National	Kha
189	The Business Journal Masik	Kathmandu	Bagmati	Monthly	National	Kha
190	Bimochan Masik	Kathmandu	Bagmati	Monthly	National	Kha
191	Yuvamanch Masik	Kathmandu	Bagmati	Monthly	National	Ka
192	Himalini Masik	Kathmandu	Bagmati	Monthly	National	Ka
193	Sahakari Nepal Masik	Kathmandu	Bagmati	Monthly	National	Kha
194	Cross check Masik	Kathmandu	Bagmati	Monthly	National	Kha

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
195	Rekhankan Masik	Kathmandu	Bagmati	Monthly	National	Kha
196	Prasasanik Masik	Kathmandu	Bagmati	Monthly	Provincial	Ka
197	Aekyabadata Masik	Kathmandu	Bagmati	Monthly	National	Ka
198	Rastiya Aarthik Masik	Kathmandu	Bagmati	Monthly	National	Kha
199	Prasasanik Sudhar Masik	Kathmandu	Bagmati	Monthly	National	Ka
200	Krisak ra Prabidhi Masik	Kathmandu	Bagmati	Monthly	National	Withheld
201	Manavadhikar Sandesh Masik	Kathmandu	Bagmati	Monthly	National	Kha
202	Janaarthik Sansar Masik	Kathmandu	Bagmati	Monthly	National	Kha
203	Samabesi Masik	Kathmandu	Bagmati	Monthly	National	Ka
204	Aadarsa Khabar Masik	Kathmandu	Bagmati	Monthly	Local	Ga
205	Purna Masik	Kathmandu	Bagmati	Monthly	National	Kha
206	Baal Sirjana Masik	Kathmandu	Bagmati	Sahityik	National	Ga
207	Sabda Samyojan Masik	Kathmandu	Bagmati	Sahityik	National	Ka
208	Salmali Masik	Kathmandu	Bagmati	Sahityik	National	Ka
209	Sabdaankur Masik	Kathmandu	Bagmati	Sahityik	National	Kha
210	Kalash Masik	Kathmandu	Bagmati	Sahityik	National	Kha
211	Akshyaya Gyan Masik	Kathmandu	Bagmati	Sahityik	National	Withheld
212	Sulekh Masik	Kathmandu	Bagmati	Sahityik	National	Ka
213	Muna Masik	Kathmandu	Bagmati	Monthly	National	Ka
214	Madhupark Masik	Kathmandu	Bagmati	Sahityik	National	Ka
215	Bhanu Masik	Kathmandu	Bagmati	Sahityik	National	Withheld
216	Garuri Masik	Kathmandu	Bagmati	Sahityik	National	Ka
217	Sitimi Masik	Kathmandu	Bagmati	Sahityik	National	Kha
218	Newsmandu asik	Kathmandu	Bagmati	Monthly	Provincial	Ga
219	Tamang Dagaj Masik	Kathmandu	Bagmati	Sahityik	Provincial	Ka
220	Unity Voice Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
221	Chyortern Masik	Kathmandu	Bagmati	Monthly	Provincial	Ka
222	Neha Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
223	Loktantra Nepal Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
224	Artha Dabali Masik	Kathmandu	Bagmati	Monthly	Provincial	Withheld
225	Sunaulo Swarga Nepal	Kathmandu	Bagmati	Monthly	Provincial	Withheld
226	Bungwakha Masik	Kathmandu	Bagmati	Sahityik	Provincial	Ka
227	Iloham Baal Masik	Kathmandu	Bagmati	Monthly	Local	Kha
228	Lipi Layu pau Masik	Kathmandu	Bagmati	Monthly	Local	Kha
229	Loun Aakh Masik	Kathmandu	Bagmati	Monthly	Local	Kha
230	Sahibato Masik	Kathmandu	Bagmati	Monthly	Local	Ga
231	Taleju Masik	Kathmandu	Bagmati	Monthly	Local	Gha
232	Pachal Jharana Masik	Kathmandu	Bagmati	Monthly	Provincial	Ga
233	Krantikari Aawaj Masik	Kathmandu	Bagmati	Monthly	Local	Withheld

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
234	Na:Li Masik	Kathmandu	Bagmati	Sahityik	Local	Kha
235	Srinkhala Masik	Kathmandu	Bagmati	Sahityik	Local	Ka
236	Krisak Masik	Kathmandu	Bagmati	Monthly	Provincial	Kha
237	Hipat Masik	Kathmandu	Bagmati	Monthly	Local	Kha
238	Krisi Journal Masik	Kathmandu	Bagmati	Monthly	Local	Kha
239	Jawanari Masik	Kathmandu	Bagmati	Monthly	National	Ka
240	Pratinidhi Duimasik	Kathmandu	Bagmati	Bimothly	National	Kha
241	Daayitwa Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
242	Kausiki Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
243	Himali Gurans Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
244	Tanneri Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
245	Baijayanti Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
246	Kalpataru Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
247	Rachana Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
248	Abhibyakti Duimasik	Kathmandu	Bagmati	Sahityik	National	Ka
249	Farakpatra Duimasik	Kathmandu	Bagmati	Bimothly	Provincial	Kha
250	Gyanpunj Duimasik	Kathmandu	Bagmati	Sahityik	Provincial	Kha
251	Divya Sandesh Duimasik	Kathmandu	Bagmati	Bimothly	Local	Kha
252	Himali Saugat (Morang)	Kathmandu	Bagmati	Bimothly	National	Ka
253	Chhatra Bichar Duimasik	Kathmandu	Bagmati	Bimothly	Provincial	Withheld
254	Sivapuri Sandesh Traimasik	Kathmandu	Bagmati	Sahityik	National	Ka
255	Divan Traimasik	Kathmandu	Bagmati	Sahityik	National	Ka
256	Pradhanata Traimasik	Kathmandu	Bagmati	Trimonthly	National	Ga
257	Rato Laltin Traimasik	Kathmandu	Bagmati	Sahityik	National	Kha
258	Antarbodh Traimasik	Kathmandu	Bagmati	Sahityik	National	Ka
259	Narisor Traimasik	Kathmandu	Bagmati	Sahityik	National	Kha
260	Sankalpa Yatra Traimasik	Kathmandu	Bagmati	Trimonthly	Local	Kha
261	Lahara Sahityik Traimasik	Kathmandu	Bagmati	Sahityik	Provincial	Ka
262	Chesta Saptahik	Kavrepalanchowk	Bagmati	Weekly	Provincial	Ka
263	Prabhatferi Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Ka
264	Kavre Times Saptahik	Kavrepalanchowk	Bagmati	Weekly	Provincial	Kha
265	Kavre Post Saptahi	Kavrepalanchowk	Bagmati	Weekly	Local	Ka
266	Naya Sanchar Darsan Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
267	Kavre Sandesh Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
268	Kavre Prabaha Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Ga
269	Hamro Indrawati Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
270	Khabar Chautari Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Ka
271	Janapratirod Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
272	Sanjibanipatra Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Ka

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
273	Nawakshiti Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
274	Madhyamarg Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Similar
275	Rosi Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
276	Palanchok Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Kha
277	Susandesh Saptahik	Kavrepalanchowk	Bagmati	Weekly	Local	Ka
278	Aksharamarg Traimasik	Kavrepalanchowk	Bagmati	Sahityik	Provincial	Kha
279	Janamat Masik	Kavrepalanchowk	Bagmati	Sahityik	National	Ka
280	Sachetana Sanchar Traimasik	Kavrepalanchowk	Bagmati	Sahityik	Local	Ga
281	Chitwan Post Dainik	Chitwan	Bagmati	Daily	Provincial	Ka
282	Kayakairan Dainik	Chitwan	Bagmati	Daily	Provincial	Withheld
283	Paradarsi Dainik	Chitwan	Bagmati	Daily	Provincial	Withheld
284	Sancharpatra Dainik	Chitwan	Bagmati	Daily	Local	Ga
285	Loktantra Sandesh Dainik	Chitwan	Bagmati	Daily	Local	Kha
286	Josh Saptahik	Chitwan	Bagmati	Weekly	Local	Withheld
287	Chure Sandesh Saptahik	Chitwan	Bagmati	Weekly	Local	Kha
288	Agrata Saptahik	Chitwan	Bagmati	Weekly	Local	Gha
289	Suvechha Sandesh Saptahik	Chitwan	Bagmati	Weekly	Local	Ka
290	Bhandafor Abhiyan	Chitwan	Bagmati	Weekly	Local	Withheld
291	Chitrawan Sandesh Saptahik	Chitwan	Bagmati	Weekly	Local	Kha
292	Chitwan Jyoti Saptahik	Chitwan	Bagmati	Weekly	Local	Gha
293	Chalani Duimasik	Chitwan	Bagmati	Bimonthly	National	Kha
294	Great Mission Traimasik	Chitwan	Bagmati	Trimonthly	Local	Withheld
295	Namaste Bihani Saptahik	Chitwan	Bagmati	Weekly	Local	Withheld
296	Saptahik Chitwan	Chitwan	Bagmati	Weekly	Local	Ga
297	Nawataranga Saptahik	Dolakha	Bagmati	Weekly	Local	Kha
298	Kalinchowk Sandesh Saptahik	Dolakha	Bagmati	Weekly	Local	Kha
299	Dhading Aawaj Dainik	Dhading	Bagmati	Daily	Local	Ga
300	Jansanjal Saptahik	Dhading	Bagmati	Weekly	Province	Kha
301	Bindukesara Saptahik	Dhading	Bagmati	Weekly	Local	Ga
302	Pawil Saptahik	Dhading	Bagmati	Weekly	Local	Ka
303	Nuwakot Pukar Saptahik	Nuwakot	Bagmati	Weekly	Local	Kha
304	Trishul Prawaha Saptahik	Nuwakot	Bagmati	Weekly	Province	Ka
305	Trishul Khabar Saptahik	Nuwakot	Bagmati	Weekly	Local	Kha
306	Nuwakot Sandesh Saptahik	Nuwakot	Bagmati	Weekly	Local	Withheld
307	Image Saptahik	Nuwakot	Bagmati	Weekly	Local	Kha
308	Trishul Awah Saptahik	Nuwakot	Bagmati	Weekly	Local	Kha
309	Mahamandal Traimasik	Nuwakot	Bagmati	Weekly	Local	Kha
310	Rupayan Traimasik	Nuwakot	Bagmati	Weekly	Province	Kha
311	Nuwakot Jagaran Saptahik	Nuwakot	Bagmati	Weekly	Local	Withheld

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
312	Majdur Dainik	Bhaktapur	Bagmati	Daily	Province	Kha
313	Prachepan Dainik	Bhaktapur	Bagmati	Daily	National	Ga
314	Ngatopol Express Dainik	Bhaktapur	Bagmati	Daily	Local	Gha
315	Doleshowr Dainik	Bhaktapur	Bagmati	Daily	Local	Withheld
316	Dharahara Times Saptahik	Bhaktapur	Bagmati	Weekly	Provincial	Kha
317	Naya Bimarsa Saptahik	Bhaktapur	Bagmati	Weekly	province	Kha
318	Samaya Samaj Saptahik	Bhaktapur	Bagmati	Weekly	National	Kha
319	Shramik Saptahik	Bhaktapur	Bagmati	Weekly	National	Kha
320	Nepal News Saptahik	Bhaktapur	Bagmati	Weekly	National	Gha
321	News of Saptahik	Bhaktapur	Bagmati	Weekly	Local	Kha
322	Paribartanshil Awaj Saptahik	Bhaktapur	Bagmati	Weekly	Local	Kha
323	Tripura news Saptahik	Bhaktapur	Bagmati	Weekly	Local	Gha
324	Star Express Saptahik	Bhaktapur	Bagmati	Weekly	Local	Ga
325	Hamro Samj Saptahik	Bhaktapur	Bagmati	Weekly	Local	Ga
326	Bayan Saptahik	Bhaktapur	Bagmati	Weekly	Local	Kha
327	Madhyapur Post Masik	Bhaktapur	Bagmati	Monthly	Local	Ga
328	Themring Masik	Bhaktapur	Bagmati	Monthly	Local	Kha
329	Nuwagi Masik	Bhaktapur	Bagmati	Monthly	National	Kha
330	Education Voice Masik	Bhaktapur	Bagmati	Monthly	Province	Kha
331	Thaukanhya Masik	Bhaktapur	Bagmati	Monthly	Local	Kha
332	Annanta Sandesh Saptahik	Bhaktapur	Bagmati	Weekly	Local	Withheld
333	Himadri Traimasik	Bhaktapur	Bagmati	Weekly	National	Kha
334	Hetauda Sandesh Dainik	Makwanpur	Bagmati	Daily	Province	Kha
335	Thaha Sandesh Dainik	Makwanpur	Bagmati	Daily	Local	Ga
336	Pradesh Dainik	Makwanpur	Bagmati	Daily	Local	Kha
337	Smaridha Samaj Dainik	Makwanpur	Bagmati	Daily	Local	Kha
338	Sajhakura Dainik	Makwanpur	Bagmati	Weekly	Local	Kha
339	Sam Saptahik	Makwanpur	Bagmati	Weekly	Local	Ga
340	Thaha Darsan Saptahik	Makwanpur	Bagmati	Weekly	Local	Kha
341	Sakriya Saptahik	Makwanpur	Bagmati	Weekly	Local	Withheld
342	Nikash Saptahik	Makwanpur	Bagmati	Weekly	Local	Ga
343	Madhyasthata Saptahik	Makwanpur	Bagmati	Weekly	Local	Kha
344	Sahikhabar Saptahik	Makwanpur	Bagmati	Weekly	Local	Ka
345	Namaskar Saptahik	Makwanpur	Bagmati	Weekly	Local	Kha
346	Hetauda wa:pau Saptahik	Makwanpur	Bagmati	Weekly	Local	Kha
347	Artha Akash Saptahik	Makwanpur	Bagmati	Weekly	Local	Withheld
348	Hetauda Khabarpatra Saptahik	Makwanpur	Bagmati	Weekly	Local	Kha
349	Tamshaling Kayii	Makwanpur	Bagmati	Weekly	Local	Kha
350	Bikash Khabar Saptahik	Makwanpur	Bagmati	Weekly	Local	Ka

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
351	Janata Jindabad	Makwanpur	Bagmati	Weekly	Local	Ga
352	Samabeshi Chintan Saptahik	Makwanpur	Bagmati	Weekly	Local	Withheld
353	Shree Akhabar Saptahik	Makwanpur	Bagmati	Weekly	Local	Kha
354	Chinari Sandesh Saptahik	Makwanpur	Bagmati	Weekly	Local	Withheld
355	Prayash Saptahik	Makwanpur	Bagmati	Weekly	Local	Withheld
356	Missaiei Pachik	Makwanpur	Bagmati	Fortnightly	Local	Kha
357	Hamro Matribhumi Traimasik	Makwanpur	Bagmati	Weekly	National	Kha
358	Achyaaya Achher Traimasik	Makwanpur	Bagmati	Weekly	National	Kha
359	Lokbhawana Traimasik	Makwanpur	Bagmati	Weekly	national	Kha
360	Smarika Khabar Saptahik	Ramechhap	Bagmati	Weekly	Local	Kha
361	Pushpabristi Saptahik	Ramechhap	Bagmati	Weekly	local	Kha
362	Chhapamar Saptahik	Ramechhap	Bagmati	Weekly	Province	Kha
363	Arthik Dainik	Lalitpur	Bagmati	Daily	National	Ga
364	NepalSamacharpatra Dainik	Lalitpur	Bagmati	Daily	National	Ka
365	Tarun Saptahik	Lalitpur	Bagmati	Weekly	National	Ka
366	Dristi Saptahik	Lalitpur	Bagmati	Weekly	National	Ka
367	Indreni Saptahik	Lalitpur	Bagmati	Weekly	National	Withheld
368	Rastra Janamanch Saptahik	Lalitpur	Bagmati	Weekly	National	Ka
369	Ghatana ra Bichar Saptahik	Lalitpur	Bagmati	Weekly	National	Ka
370	Hhak Saptahik	Lalitpur	Bagmati	Weekly	National	Ka
371	Naya Marga Saptahik	Lalitpur	Bagmati	Weekly	Local	Ga
372	Nami Saptahik	Lalitpur	Bagmati	Weekly	Local	Ga
373	Bridhawani Saptahik	Lalitpur	Bagmati	Weekly	Local	Withheld
374	Godawari Post Saptahik	Lalitpur	Bagmati	Weekly	Local	Kha
375	Nepali Times Saptahik	Lalitpur	Bagmati	Weekly	National	Ka
376	Himal Khabar Patrika	Lalitpur	Bagmati	Weekly	National	Ka
377	Lalit Sandesh Saptahik	Lalitpur	Bagmati	Monthly	Local	Kha
378	Shischhyak Masik	Lalitpur	Bagmati	Monthly	National	Ka
379	Lalyuk Masik	Lalitpur	Bagmati	Bhasabhasi	National	Ga
380	New Prestige Nepa Masik	Lalitpur	Bagmati	Bhasabhasi	National	Kha
381	Tanchhoppa Masi	Lalitpur	Bagmati	Monthly	National	Kha
382	Sichhalaya Masik	Lalitpur	Bagmati	Weekly	Province	Kha
383	Champak Masik	Lalitpur	Bagmati	Weekly	Local	Withheld
384	Kalanidhi Traimasik	Lalitpur	Bagmati	Daily	National	Withheld
385	Logpriya Samachar Dainik	Sindhupalchowk	Bagmati	Weekly	Province	Ga
386	Sindhusanchar Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Withheld
387	Sinchu Prawaha Saptahik	Sindhupalchowk	Bagmati	Weekly	Province	Ka
388	Sindhu Post Saptahik	Sindhupalchowk	Bagmati	Weekly	Province	Ka
389	Sindhu Sandesh Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Kha

S.N	Name of the newspaper	District	Province	Type	Outreach	Grade
390	Sindhu Jagaran Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Kha
391	Janatapatra Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Ga
392	Sindhujwala Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Ga
393	Sindhu Bulandha Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Ka
394	Ookhareni Saptahik	Sindhupalchowk	Bagmati	Weekly	Local	Ka
395	Nayapaani Sandesh Saptahik	Sindhupalchowk	Bagmati	Monthly	Local	Ga
396	Netrajyoti Maashik	Sindhupalchowk	Bagmati	Monthly	Local	Ga
397	Sindhu Yaatra Mashik	Sindhupalchowk	Bagmati	Daily	Local	Kha
398	Prabhat Samaachar Dainik	Sindhuli	Bagmati	Daily	Local	Ga
399	Sindhuli Saugat Dainik	Sindhuli	Bagmati	Weekly	Local	Kha
400	Sajha Nepal Saptahik	Sindhuli	Bagmati	Weekly	Local	Ga
401	Sindhuli Update Saptahik	Sindhuli	Bagmati	Weekly	Local	Gha
402	Saafal Nepal Saptahik	Sindhuli	Bagmati	Weekly	Local	Ka
403	Kamalamai Express Saptahik	Sindhuli	Bagmati	Weekly	Local	Kha
404	Dhughauli Saptahik	Sindhuli	Bagmati	Trimonthly	Local	Ga
405	Swadhin Khabarpratika	Sindhuli	Bagmati	Daily	Local	Kha

Annex 3: Spokespersons for COVID-19 designated hospitals in Bagmati Province

S.N	COVID-19 designated Hospitals (spokesperson)	Hospital type	COVID focal/Spokesperson	Phone no	Email
1	Trishuli Hospital	Provincial	Dr. Dipesh Upreti	9849025599	Dipesh.upreti01@gmail.com
2	Bal karyalaya Isolation Center, Dhading Hospital	Provincial	Mann Kumari Shrestha	9845089263	mann.shresta@gmail.com
3	District Hospital, Ramechhap	Provincial	Dr. Jeevan Chaudhary	9845328022	jeevanchaudhary@pahs.edu.np
4	Rasuwa hospital	Provincial	dr.anil kharel	9851255407	r.d.h.@gm
5	Hetaunda Hospital	Provincial	Dr.Sagar Kafle	9867023536	Kaflesgr@gmail.com
6	Bhaktapur Hospital	Provincial	Dr sunil Dhungel	9851101115	
7	Sindhuli Hospital	Provincial	Dr.Laxman Khadka and Dr. Prasanna Rajbhandari (MDGP)	9854042342 and 9863815622, 9803328287	laxmankhadka19@gmail.com
8	Ramechhap Hospital	Provincial	Dr. Roshan Gwachha	9841848587	rojroshan2@gmail.com
9	Bir Hospital	Federal	Dr Achyut Karki	9841449232	achyutkarki@gmail.com
10	Nepal Police Hospital	Federal	SSP Dr Manoj Yadav	9851173173	doctormanojyadav@gmail.com
11	Nepal Armed Police Force Hospital	Federal	Dr Prabin Nepal	9851017542	prabinnepal001@gmail.com
12	National Ayurvedic Research Centre, Kirtipur	Federal	Dr Jitendra Shrestha	9851176776	info@nartc.org.np
13	Bharatpur Hospital	Federal	Dr Pramod Paudel (Sr Consultant Physician)	9855074656	
14	STIDH	Federal	Dr Anup Bastola	9851096917	docanup11@gmail.com
15	Shree Birendra Army Hospital	Federal	Col Dr Sunita Panta	9851058544	covsbh@gmail.com
16	Mulpani Hospital	Government	Dr Prakash Kharel	9849060821	prakharel1@gmail.com
17	Tokha PHC	Government	Dr Suman Acharya	9843034688	sumann.acharya@gmail.com
18	Chalnakhel PHC	Government	Dr Sarita Biswakarma	9861388048	
19	Kharanitar hospital isolation center	Local government	Dr. Laxmi Bogati	9861666887	drlaxmibogati@gmail.com
20	Bhaktapur Cancer Hospital	Government			
21	Alka Hospital Pvt.Ltd.	Private	Rojika Pradhan, Chief of Administration	9849185407, 9801206993	rojikapradhan1@gmail.com
22	Ishan Children and Women's Hospital Pvt Ltd	Private	Dil Kumari Gurung (Matron)	98416253541	ishan.nursing@gmail.com
23	Sahid Memorial Hospital	Private	Umesh Maharjan	9841590563	mahumesh@gmail.com
24	Makawanpur Sahakari Hospital	Private	Ram Chandra Regmi	9855071987	bgconsult057@gmail.com
25	Churehil Hospital PLT	Private	Surendra Badhu	9849685644	info.churehillhospital@gmail.com
26	Hetaunda Artho and general Hospital	Private	Dichhya Pakhrin	9845678044	cityhos.hetauda@gmail.com
27	Hetauda City	Private	Anil Dhay, Prasanna Shrestha	9855039482	Prasanna.shrestha8@gmail.com
28	Sancho Hospital(Not Registered)	Private	Mitrata Sharma	9861611439	Smitrati@gmail.com
29	Nepal Korea Friendship Municipality Hospital	Local Government	Dr D.K. Raushan	9802304801	raushandk@yahoo.com
30	Grande International Hospital Ltd. Dhapashi, Kathmandu	Private	Bikash Man Singh	9801202507	bikash.singh@gradnehospital.com
31	Kanti Children's Hospital	Private			
32	Dhulikhel Hospital	Private			
33	Mahesh Manmohan Hospital, Dahachowk	Private	bhuwan Khakurel	9851008929	bhuwankhakurel123@gmail.com
34	Megha Hospital	Private			
35	Spinal injury Rehabilitation centre, Kavre	Private			
36	Norvic Int. Hospital	Private			
37	Star Hospital	Private			
38	Sarvanga Hospital	Private			
39	Jana Maitri Hospital	Private	Dr Rakesh	9845584187	rakesh148.ry@gmail.com jnthos@yahoo.com

S.N	COVID-19 designated Hospitals (spokesperson)	Hospital type	COVID focal/Spokesperson	Phone no	Email
40	Kantipur Dental	Private			
41	Ichangu Narayan Isolation Centre	Private	Susheel Khanal	9851058322	
		Private	Purna Bahadur	9860665250	
42	B&B Hospital	Private			
43	Nidan Hospital	Private			
44	Sumeru Hospital	Private	Dinesh Acharya		
45	Om Hospital	Private	Dr Bishwanath Koirala	9802076357	
			Uma Shrestha (Matron)	9802076271	
46	Global Hospital	Private			
47	Helping Hands Hospital	Private	Dr. Shailendra Gautam	01-4496807/ 4473518	info@helpinghandshospital.org.np
48	International Friendship Children's Hospital	Private	Shrijana Acharya		info@ifch.com.np
49	Mental Hospital	Private	Dr Ananta Adhikari	9851138262	
50	Grande City Hospital	Private	Lumus Manandhar	9841458849	info@grandecityhospital.com
			Hasna Shakya (Nursing Incharge)	9841069247	
51	Medicare Hospital	Private	Bimala Neupane (BN)	9841395930	medicare@medicarehosp.com
			Punita Shah (BN)	9803348433	
			Mona Bhandari (Matron)	9841349395	
52	Nepal Cancer Hospital	Private	Dr Bijesh Ghimire	9851104108	
53	HAMS	Private	Dr Jyotindra Sharma (Executive Director)	9810292909	Sajan.rajbhandari1323@gmail.com
			Sajan Rajbhandari		info@hamshospital.com



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Ministry of Health and Population



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