

The Clustering and Routing chart maps facilities from where specimens for TB diagnosis are picked up for examination at the GeneXpert sites. It also describes the routing of specimen movement and provides details of the contact persons in all the service delivery points including the riders. This chart may be updated when changes occur. For instance, following the establishment of a new GeneXpert site or the replacement of a rider. It is made of 4 sections:

1	GeneXpert sites (the Hub)	Columns A - D of the 'template' sheet identify the serial number of the GeneXpert sites, the name and location of the site and the details of the contact person in each site.
2	Pick-up facilities	Columns E - K of the 'template' sheet identify the facilities (names and geo codes) from where specimens for TB diagnosis are picked up (pick-up facilities) and transported to the GeneXpert site. In addition, details of the contact persons at the facilities are provided.
3	Clusters	Columns L of the 'template' sheet categorizes the facilities into clusters. A rider provides services to each cluster. One GeneXpert site may serve more than one cluster
4	Routing	Columns M - Q define the routing for each cluster. The number of LGAs and facilities per cluster as well as the days for the pick-up of specimens from the facilities is defined here. Also, the contact details of the rider is provided under this section.

1	GeneXpert sites (the Hub)	
	Column A refers to the serial number (S/N) of the GeneXpert sites	Write the serial number in Roman numerals (1,2,3,...) for the GeneXpert sites. For each new sheet, continue from the last number in the previous sheet. For instance, if the last number in the first sheet is 6, continue the next sheet from number 7.
	Column B identifies the name of the GeneXpert site	Write the name of the facility where the GeneXpert machine is located including the LGA
	Column C identifies the geo codes of the GeneXpert site	Write the longitude in the upper row and the latitude in the lower row
	Column D refers to the details of the contact person at the GeneXpert site	Write the name of the GeneXpert contact person in the upper row and his/her phone number in the lower row.
2	Pick-up facilities	
	Column E refers to the serial number (S/N) of the facilities where the specimens are picked up (pick-up facilities)	Write the serial number in Roman numerals (1,2,3,...) for the facilities. For each new sheet, continue from the last number in the previous sheet. For instance, if the last number in the first sheet is 41, continue the next sheet from number 42.
	Column F identifies the name of the pick-up facility	Write the name of the facility where the specimen was picked up
	Column G refers to the longitude (geo code) of the pick-up facilities	Using geo-coordinate apps, identify the geo code of the pick-up facility and write the longitude in the format ()
	Column H refers to the latitude (geo code) of the pick-up facilities	Using geo-coordinate apps, identify the geo code of the pick-up facility and write the latitude in the format ()
	Column I refers to the name of the contact person at the pick-up facility	Write the name of the contact person at the pick-up facility
	Column J refers to the phone number of the contact person at the pick-up facility	Write the phone number of the contact person at the pick-up facility
	Column K refers to the LGA where the pick facilities are located	Write the name of the LGA where the pick-up facility is located
3	Clusters	
	Column L refers to the cluster	A cluster specifies the names and number of facilities and LGAs that are served by one rider. Write the number of the cluster serially (cluster 1, cluster 2, cluster ...)
4	Routing	
	Column M refers to the number of LGAs per cluster	Write the number of LGAs per cluster
	Column N refers to the number of facilities per cluster	Write the number of pick-up facilities per cluster
	Column O refers to the specimen pick-up days	Write the weekday (Mondays, Tuesdays, ..., Fridays) that the specimen will be picked up in each facility
	Column P refers to the riders name	Write the name of the rider (Surname and first name at least)
	Column Q refers to the Rider's phone number	Write the phone number/s of the rider

Clustering and Routing chart for transportation of specimen for TB diagnosis and result reporting

State:

Period:

Name of Rider Group head:

GeneXpert sites (the Hub)				Pick-up facilities						Clusters	No. of LGAs/cluster	No. of facilities/cluster	Specimen pick-up days	Rider's name	Rider's phone number							
S/N	Name of GeneXpert site (include LGA)	Geo coordinates (Longitude and Latitude) ^a	Name and Phone number of GeneXpert contact person(s) ^b	S/N	Facility name	GIS Coordinates		Name of facility contact person	Phone number of facility contact person							LGA						
						Longitude	Latitude															
											Cluster 1											
																			Cluster 2			
											Cluster 1											
																			Cluster 2			
											Cluster 3											
																			Cluster 4			
											Cluster 5											
																			Cluster 6			
Key:		# ^a : Write the longitude of the geo code in the upper row and the latitude in the lower row				X ^b : Write name in the upper row and phone number in the lower row				TOTAL	0	0										