MINIMUM STANDARDS FOR MEDICAL DIAGNOSTIC LABORATORIES

MIZORAM

Minimum Standards for Medical Diagnostic Laboratories (or Pathological Laboratories) - Every clinical establishment relating to diagnosis or treatment of diseases, where pathological, bacteriological, genetic, radiological, chemical, biological investigations or other diagnostic or investigative services, are usually carried on with the aid of laboratory or other medical equipment, shall comply with the minimum standards of facilities and services as specified in the Schedule.

SCHEDULE

Sl. No.	Type of Laboratory	Level 1 (Basic Composite)	Level 2 (Medium)	Level 3 (Advance)
1	2	3	4	5
Ι	Scope of Services	These tests (as mentioned below) can be performed in mobile laboratory at field locations also.	In addition to the tests performed in Level - 1(basic composite) laboratory, including tests mentioned as under.	In addition to tests performed in Level 2 (medium) laboratory, additional tests mentioned as under.
	(a) Biochemistry	Routine Biochemistry tests like Blood Sugar, Renal Function Tests, Liver Function Tests, Amylase, Lipase, Lipid profile, Cerebra - Spinal Fluid (CSF) and other biological fluids (glucose and protein), Oral Glucose Tolerance Test, Electrolytes, Calcium or Phosphate, HbA1c, any bio chemistry based rapid test.	Hormone Bioassay, Tumor markers, plasma protein electrophoresis	 (a) coagulation profile, Drug monitoring and toxicology assay, (b) Molecular genetics, tests for detection of inborn errors of metabolism
	(b) Haematology	Haemogram, Bleeding Time, Clotting Time, Prothrombin Time, Activated Partial Thromboplastin Time, Blood grouping and matching.	Coagulation Assay	All other Haematology tests also.
	(c) Histopathology	NIL	May do, subject to availability of equipment and specialist	Histopathology Examination
	(d) Molecular Genetics	NIL	May do, subject to availability of equipment and specialist	Molecular genetics
	(e) Cytopathology	NIL	PAP smear, Fine Needle Aspiration Cytology(FNAC), sputum and CSF cytology	Immuno Cytochemistry. Other biological fluid cytology; Ultrasound or CT guided FNAC.
	(f) Immuno-	NIL	NIL	Immunohisto-

	histopathology			chemistry:
	(g) Medical	Basic tests like Rapid	a) Serological tests	(a) Culture
	Microbiology	Test (Point of Care	for viruses,	sensitivity tests for
	& Immunology	tests) for infection,	bacteria, fungi,	viruses.
		urine routine	parasites	(b) Real Time
		examination and	(b) Cultural	Polymerase Chain
		microscopy, Hanging	Sensitivity	Reaction (RTPCR)
		drop for Vibrio	tests: Bacterial or	tests.
		cholerae, Stool for ova,	fungal	(c) Tissue diagnosis
		cyst.	(c) Other special	test for infectious
		Cyst.	stains besides	diseases.
		All HIV positive rapid	Gram's stain.	diseases.
		assays need to be	Orani 5 Stani.	
		confirmed from the next		
		level diagnostic		
		laboratory.		
II	INFRASTRUCTURE	laboratory.		
11	INFRASIKUCIURE	Level 1	Level 2	Level 3
		(Basic Composite)	(Medium)	(Advance)
	1. Signage	(Dusie Composite)	(Meulum)	(Invance)
	(a) Basic signage- A	Essential	Essential	Essential
	signage within or			
	outside the facility			
	should be made			
	available containing			
	the following			
	information.			
	(b) Name of the	Essential	Essential	Essential
	person-in- charge with	Listentia	Losential	Losential
	qualification and			
	registration number			
	(c) Broad services	Essential	Essential	Essential
	provided i.e.	Essential	Essential	Lissential
	Haematology,			
	Biochemistry, Clinical			
	Pathology, Histology,			
	Cytology, Molecular			
	Genetics- whichever is			
	applicable			
	(d) Timings of the	Desirable	Essential	Essential
	different consultants		Loounda	Loounda
	(e) Internet facility or	Desirable	Desirable	Desirable
	Telephone and mobile			
	number for			
	appointment (f) Fee structure: To	Essential	Essential	Essential
		Losennai	Essential	Essential
	be displayed			
	separately including			
	type of investigation			
	and charges i.e.,			
	Special and routine			
	tests			

2. Safety Signage (Wh	erever applicable)		
(a) Safety hazard and	Essential	Essential	Essential
caution signs -			
Biomedical waste			
segregated in coloured			
bins and bags as per			
Biomedical Waste			
Management Rules,			
2016 including			
radioactive materials,			
toxic chemicals,			
microbial agents,			
infected biological			
material.			
	Desirable	Desirable	Essential
(b) Appropriate Fire	Desirable	Desirable	Essential
exit signages - Minimum one fire			
 extinguisher			
3. Space requirement		1	
(a) Registration and	Desirable	Essential	Essential
waiting room, public			
utilities, safe drinking			
water etc.			
(b) Sample collection	Essential	Essential	Essential
area			
(c) Laboratory with	Essential	Essential	Essential
adequate diffuse and			
spot lighting			
(d) Toilet	Essential	Essential	Essential
(e) Reporting and	Essential	Essential	Essential
billing area		20000000	20000000
(f) Staff room and	Desirable	Desirable	Essential
doctor's duty room –	Destructe	Desirable	Losential
Male and female			
different where 24			
hours services			
available			
	Essential	Eccentic1	Essential
 (g) Washing room	Essential	Essential	Essential
(h) Preservation of the	Essential	Essential	Essential
specimens and slides			
(i) Electrical facilities	Essential	Essential	Essential
(j) Temperature	Essential	Essential	Essential
control for specialized			
equipment like flow			
cytometry and			
chemiluminescence			
equipment ,ELISA test			
equipment etc.			
(k) Counselling room	Essential, if HIV test is	Essential, if HIV	Essential, if HIV tes
for HIV	done	test is done	is done
(1) FNAC room for all	Desirable	Desirable	Desirable
patients for sample			

	collection			
	(m) Dark room for	Not required	Not required	Not required
	Immuno-fluorescence	riotroquired	riorrequirea	riot required
	(n) Frozen Section	Not applicable	Essential	Essential
	facilities	Not applicable	Losentiai	LSSChuldi
	4. Furniture and	Essential	Essential as per	Essential as per
	fixtures	Essential	scope of services	scope of services
	5.Communication	Desirable	Desirable	Desirable
	system - Telephone	Desirable	Desirable	Desirable
	and mobile number for			
	appointment			
	6. Wash Basins	Essential	Essential	Essential
III	HUMAN RESOURCE		Essentia	Essential
	a) Minimum	Desirable: Bachelor of	Essential: Doctor	Essential: Doctor of
	qualification of	Medicine and Bachelor	of Medicine (MD)	Medicine (MD) or
	Technical Head of	of Surgery (MBBS)	or weatenic (wiD)	Diplomate of
	Laboratory or	from a recognised	Diplomate of	National
	Specialist	university institution.	National Board	Board (DNB) in
	or *Authorised		(DNB) in	Pathology or
	Signatories.	**Where ever	Pathology or	Biochemistry or
	Signatorios.	interpretation of lab	Biochemistry or	Medical
	*The authorised	results or opinion there	Medical	Microbiology or
	signatory will be liable	on are required,	Microbiology or	Laboratory Medicine
	for authenticity of the	registered Bachelor of	Laboratory	or Diploma in
	laboratory test report.	Medicine and Bachelor	Medicine or	Clinical Pathology
	laboratory test report.	of Surgery (MBBS)	Diploma in Clinical	(DCP) or Bachelor
		medical practitioner is	Pathology (DCP)	of Medicine
		essential.	or Bachelor of	and Bachelor of
		essential.	Medicine and	Surgery(MBBS)
			Bachelor of	with Doctor of
			Surgery	Philosophy (PhD) in
			(MBBS) with	any of the subjects
			Doctor of	above.
			Philosophy (PhD)	Desirable:
			in any of the	If any special test of
			subjects above.	other speciality is
			Desirable:	done,
			If any special test	it is desirable that
			of other speciality	specialist of that
			is done, it is	subject needs be
			desirable that	there on full time or
			specialist of that	part time or
			subject needs be	outsourced basis.
			there on full time	*Special tests means
			or part time or	any other apart from
			outsourced basis.	routine basic
			* Special tests	biochemistry,
			means any other	haematology, or
			apart from routine	medical
			basic biochemistry,	microbiology tests as
			haematology, or	listed in basic
			medical	composite
			microbiology tests	laboratory.
			Interobiology tests	inconnory.

		as listed in basic	Illustration:
		composite	(i) Special Tests
		laboratory.	pertaining to Bio-
		<i>Illustration:</i>	Chemistry and
			Microbiology
		(i) Special Tests	23
		pertaining to Bio-	shall be
		Chemistry and	reported by Doctor
		Microbiology shall	of Medicine (MD) or
		be reported by	Diplomate of
		Doctor of Medicine	National
		(MD) or Diplomate	Board (DNB) Bio-
		of National Board	Chemistry and
		(DNB) Bio-	Doctor of Medicine
		Chemistry and	(MD) or
		Doctor of Medicine	Diplomate of
		(MD) or Diplomate	National Board
		of National Board	(DNB)
		(DNB)	Microbiology
		Microbiology	respectively.
		respectively.	(ii) Biopsies or
		(ii) Biopsies or	Cytology specimens
		Cytology	has to be reported by
		specimens has to	a person possessing
		be reported by a	Doctor of Medicine
		person possessing	(MD) or Diplomate
		Doctor of Medicine	of National Board
		(MD) or Diplomate	(DNB) Pathology.
		of National	× / 85
		Board (DNB)	
		Pathology.	
(b) Number of	Essential: 1	Essential: 2	Essential: 4
laboratory technician	s		
with Diploma in			
Medical Laboratory			
Technology (DMLT)			
or Bachelor of Science			
(BSc.) Medical	-		
Laboratory			
Technology (MLT) o	r		
Master of Science	-		
(M.Sc.) Bio-chemistr	v		
or Microbiology	5		
qualification from a			
recognised university			
or institution.			
	Essential: 1	Essential: 1	Essential: 2
(c) Support staff		Essential: 1	Essential: 2
(Laboratory Assistant			
or Laboratory			
Attendant) Roster of			
salary of staff,			
Periodic health			
checkups and			
vaccination of staff.			

IV	INSTRUMENTS OR EQUIPMENT OR DRUGS			
	(a) List of minimum	Essential as per scope	Essential as per	Essential as per
	medical diagnostics	of services	scope of services	scope of services
	laboratory equipment			
	with quantity			
	(b) List of minimum	Essential as per scope	Essential as per	Essential as per
	medical diagnostics	of services	scope of services	scope of services
	laboratory instruments			
	with quantity			
	c) Sterilisation such as	Essential	Essential	Essential
	hot air oven or			
	autoclave			
	(d) List of reagents	Essential	Essential	Essential
	and consumables			
	required			
	(e) List of Disposables	Essential	Essential	Essential
	(f) Policy of annual	Desirable	Desirable	Desirable
	maintenance contract			
	or comprehensive			
	maintenance contract			
	and records for			
	equipment (Log			
	books)			
V		ORY REQUIREMENTS		I
	Legal or statutory	Essential	Essential	Essential
	requirements such as			
	registration under the			
	provisions of			
	Biomedical Waste			
	Management Rules,			
	2016 with State or			
	Union territories'			
	Pollution Control			
	Board with			
	registration number			
	and date of expiry,			
	site, space, location			
	and environmental			
	requirements to be as			
VI	per local bye- laws	ENCE AND REPORTIN	C C	
V I	(a) Reports of all	ENCE AND REPORTIN	Essential (Clinical	Essential (Clinical
	patients date wise and	Establishment to	Establishment to	Establishment to
	specialty wise for	maintain information	maintain	maintain information
	example:	and statistics provided)	information and	and statistics
	Histopathology,	and statistics provided)	statistics provided)	provided)
	Cytology,		statistics provided)	provided)
	Haematology and			
	Laboratory Medicine.	Essential	Essential	Essential
	(b) Medico legal	Essential		
	records, if applicable			
	(as per relevant law)			

	(c) Record keeping of technicians working in	Essential	Essential	Essential
	laboratory indicating			
	their details of			
	qualification training and others			
	(d) Availability of	Desirable	Desirable	Desirable
	reference library			
	including books or			
	periodicals or e-			
	journals or Compact			
	Disc (CD)s			
VII	STANDARDS ON BAS			
	(a) Infection Control	Essential	Essential	Essential
	practices - as per Bio			
	Medical Waste			
	Management Rules,			
	2016	Essential	Essential	Essential
	(b) Safety considerations- use of	Essential	Essential	Essential
	disposable needles etc			
	(c) Patient Information	Essential	Essential	Essential
	and Education		Losullia	Loounnai
	(d) Process of	Essential	Essential	Essential
	calibration of			
	equipment and			
	reagents			
	(e) Booklet of	Essential	Essential	Essential
	Standard operating			
	procedures of all			
	procedures available			
	(f) Grievance	Essential	Essential	Essential
	registration and			
	disposal mechanism	Desirable	Decirchle	Desirable
	(g) Quality Control in the form of external	Desirable	Desirable	Desirable
	quality assurance			
	scheme or inter-			
	laboratory			
	comparison, as the			
	case may be			
	(h) Policy of	Desirable	Desirable	Desirable
	proficiency testing of			
	tests performed.			