

NAAC CRITERIA 04: Infrastructures and learning resources

DOCUMENT CODE: 4.2.1

Teaching Hospital, equipment, clinical teaching-learning and laboratory facilities as stipulated by the respective Regulatory Bodies.

CONTENTS

Sr.	Particulars	Page
No		No.
1.	Machine Room Details	2
2.	Instrument Room Details	7
3.	Details of Laboratories	9
4.	List of facilities available for patient care, teaching-learning and	15
	research	

4.2.1 QIM Teaching Hospital, equipment, clinical teaching-learning and laboratory facilities as stipulated by the respective Regulatory Bodies (7 marks)

Describe the adequacy of the Teaching Hospital, equipment, clinical teaching- learning and laboratory facilities as stipulated by the respective Regulatory Bodies within 500 words

Provide Weblink to:

The facilities as per the stipulations of the respective Regulatory Bodies with Geotagging

☐ The list of facilities available for patient care, teaching-learning and research

 \square Any other relevant information

Machine Room Details

- Machine Room (Industrial Pharmacy Room) is well equipped facility covering total area of 75 Sq. meters.
- The overall area is properly segregated as separate sections or rooms like Documentation section, Solid Section, Liquid section, Semisolid Section, and IPQC section.
- Machine room is provided with AC as well as UPS facility for the important machines in some sections.
- Utilization of machine room is through well defined procedure.
- Every machine is provided with utilization entry log book and SOP for safe handling of machine.
- The machine room cleanliness is maintained by machine room attendant and Deesha services. Details of equipment available at machine room are given in table no. **4.2.1** A

Table 4.2.1a: Machine Room Details

Sr.	Name of equipment	SOP	Make	Model	Availability of	Safety
No		number			Log Book	measures
					(Yes/No)	
1	Erweka main drive	MR 001-00	Inweka	IV MD Sr.No	Yes	Availability
				401104.0811		of electric
2	Universal gearing	MR 002-00	Inweka	Model-Universal	Yes	earthing,
				Gear, Sr.No.		Fire-hydrant
				402107.0811		system,
3	Erweka dry granulator	MR 003-00	Inweka	Model-Dry		Exhaust fan,
				Granulator, Sr.		UPS back up,
				No .420109.0811		Multi circuit
4	Erweka wet granulator	MR 004-00	Inweka	Model Wet	Yes	breaker,
				Granulator, Sr.		Students
				No . 419108.0811		wearing
5	Erweka planetary mixer	MR 005-00	Inweka	Model- Planetary	Yes	cap/apron,
				Mixer, Sr.No.		Glass
				404111.0811		shutters are
6	Erweka ball mill	MR 006-00	Inweka	Model- Ball Mill,	Yes	provided as a
				Sr.No .		safety

				428112.0811		measures
7	Erweka double cone mixer	MR 007-00	Inweka	Model- Double	Yes	during
				cone Mixer,		handling of
				Sr.No .		compression
				411110.0811		machine
8	Erweka Homogenizer	MR 008-00	Inweka	Model -	Yes	
				Homogenizer,		
				Sr.No .		
				421113.0811		
9	Mechanical lab stirrer	MR 009-00	Remi,	FEUG 14750	Yes	
10			Mumbai	FEUG 14752	Yes	
11				FEUG 16353	Yes	
12				FEUG 14748	Yes	
13				FEUG 14753	Yes	
14	Environmental test chamber	MR 010-00	Remi,	1 HC 2016	Yes	
15		MR 010-01	Mumbai	1 HC 2015	Yes	_
16	Hardness tester	MR 012-01	Modern lab	Monsanto type	Yes	
			instruments			
17	Disintegration test apparatus	MR 013-01	Metalab	H651	Yes	
18	Vernier caliper	MR014-00	Advance	Dial Caliper	Yes	1
19	Collapsible tube sealing machine	MR 015-01	Dolphine	-	Yes	1

20	Coating pan	MR 016-01			Yes	
21	Digital weighing balance	MR 017-01	Sansui	JW,	Yes	
				Sr No:140101937		
22	Friability apparatus	MR 018-01	Metalab	4652	Yes	
23	Digital bulk density apparatus	MR 019-01	Metalab	Innovative	Yes	
				XCN774, H691		
24	Cooling centrifuge	MR (QA)	Remi,	VCCA-2560	Yes	
		020-01	Mumbai			
25	Capsule filling machine	MR 021-01	Dolphin	CF 136 S/O	Yes	
26	Brookfield Viscometer LV	MR 022-00	Brookfield	DVE	Yes	
			Engg. Lab			
27	High Speed Homogenizer	MR 023-01	Ika	T-25 IKA	Yes	
				ULTRA TUREX		
28	Digital Lab stirrer	MR 024-01	Remi,	ELF 1377	Yes	
			Mumbai			
29	Digital Lab stirrer	MR 024-01	Remi,	ELF 1378	Yes	
			Mumbai			
30	Dissolution test apparatus	MR 025-01	Electrolab,	Equipment no.	Yes	
			Mumbai	1309322 (08L)		
31	Multiple punch compression	MR 026-01	Karnavati	Rimek	Yes	
	(Minipress)					

32	Orbital shaker	MR 027-01	Remi.	IHC 3193	Yes
			Electrotechnik		
33	Tablet Coater	MR028-00	ACG Pharma	Mini Quest T	Yes
			Technologies		
			PVT Ltd.		
34	Bottle filling Machine	MR029-00	-	-	Yes
35	Bottle Crimper	MR030-00	-	-	Yes
36	Collapsible tube filling machine	MR031-00	-	-	Yes
37	Spray Dryer	MR(PH)32-	Labultima	LU-222	Yes
		02		ADVANCED	
38	Digital hardness tester	MR033-00	Laboratory	-	Yes
			Enterprises		
39	Rapid Mixer Granulator	MR034-00	General	HSMG-5	Yes
			mechanical		
			Industries		

4.2.1 B Instrument Room Details:

- Sophisticated, air-conditioned 'Central Analytical Instrument Room' located at ground floor of institute with area of 36 sq. m.
- Instrument room is provided with separate and dedicated UPS system.
- For all instruments Standard Operating Procedures (SOPs) are prepared and maintained.
- For each instrument separate log-book is provided, where students/ users enter the purpose, in time and out time.
- General user rules, user privilege are displayed in instrument room.
- Students operate the instruments individually under supervision of trained staff.
- The use of apron is compulsory in instrument room.
- The cleanliness is maintained by instrument room attendant and Deesha Services. Details of equipment available at instrument room are given in table no. 4.2.1B

Table 4.2.1 b: Instrument Room Details

Sr. No	Name of	SOPs	Make	Model	Availability of	Safety
	equipment	number			Log books	measures
					(Y/N)	
1.	Digital	1	Shimadz	AUX220	Yes	Availability of

	Balance		u			electric
2.	Binary High	4.1 - 4.5	JASCO	PU 2080 plus	Yes	earthing, Fire-
	Pressure					hydtant syatem,
	Gradient					UPS back up,
	HPLC					Multi circuit
3.	UV-Vis	2.1 - 2.6	JASCO	V-630	Yes	breaker,
	Spectrophoto					Students
	meter					wearing cap and
4.	FT-IR	3.1 - 3.6	Shimadz	IRAffinity-1	Yes	apron.
	Spectrophoto		u			
	meter					
5.	KBr die set,	6.1 - 6.2	PCI		Yes	
	hydraulic		Analytic			
	pellet press					
6	HPLC system	-	Waters	e2695 quaternary low pressure gradient HPLC system with PDA detector equip ped with Empower 3 Software	yes	

Table 4.2.1 c Details of Laboratories

Lab Description	Batch	Rooms/Labs equipped with			Quality of	Safety
	size				instrument	measures
Department of	20	Equipments/quantity	Ava	ilability	Make/	Availability of
Pharmaceutical				of	Model	material safety
Chemistry			SOP	Manual		data sheets,
Total Laboratories :04 Including preparation		UV-Vis Spectrophotometer(01)	√	√	Shimdzu 1800	electric earthing, Fire
room and balance room		pH meter(01)	V	√	Systronics 361	hydrant pump systems, UPS
and surance room		Conductometer(01)	V	√	Systronics 301	back up, Multiple
		Refractometer (01)	√	√ V	Dolphin 1078	Circuit
		Flamephotometer (01)	-	√	Systronic 130	Breaker, Hand gloves, Eye
		Deep freeze (01)	V	-	Blue Star CHF300B	washer, Safety goggles, High
		Nephelo-turbidometer (01)	V	V	Systronics 132	ventilation Windows
		Photoflurometer (01)	V	V	Systronics 152	Students
		Polarimeter (01)	V	V	Dolphin 1079	wearing

Sonicator(01)	1	-	PCi	aprons and
			1.5L50	caps during
Centrifuge (01)	1	-	Remi	practical
Oil free Vacuum Pump (01)	1	-	INSTU	
Solvent filtration kit (01)	V	-	PCI Analytics	
Ball & Stick Model(01)	1	-	Molecular	
			Vision	
Electric Oven(01)	V	√	Dolphin	
Electric Water Bath(02)	1	-	Dolphin	
Heating Mantle(21)	1	-	Dolphin	
Hot Plate(01)	1	-	Dolphin	
Magetic Stirrer-Hot Plate (01)	1	-	Remi	
Fume Chamber	1		Lab Exel	
(01)				
Vaccum pump	1		J B Vak	
(01)				
Digital Balance (01)	√		Sansui	
	Centrifuge (01) Oil free Vacuum Pump (01) Solvent filtration kit (01) Ball & Stick Model(01) Electric Oven(01) Electric Water Bath(02) Heating Mantle(21) Hot Plate(01) Magetic Stirrer-Hot Plate (01) Fume Chamber (01) Vaccum pump (01)	Centrifuge (01) Oil free Vacuum Pump (01) Solvent filtration kit (01) Ball & Stick Model(01) Electric Oven(01) Electric Water Bath(02) Heating Mantle(21) Hot Plate(01) Magetic Stirrer-Hot Plate (01) Fume Chamber (01) Vaccum pump (01)	Centrifuge (01) Oil free Vacuum Pump (01) Solvent filtration kit (01) Ball & Stick Model(01) Electric Oven(01) Electric Water Bath(02) Heating Mantle(21) Hot Plate(01) Magetic Stirrer-Hot Plate (01) Fume Chamber (01) Vaccum pump (01)	Centrifuge (01) Centr

	20	Triple Beam Balance(01) Analytical Balance(01)	√ √			
Department of	20	Glass Double Distillation unit	V	$\sqrt{}$	Borosil	Availability of
Pharmaceutics		(Water)-01				material safety
Total Laboratories:03						data sheets,
Including a preparation		Hot Air Oven (01)	√		Meta lab	electric
room and aseptic room						earthing, Fire
with air lock cabinet,						hydrant pump
pass box, garment cabinet,						systems, UPS
Laminar flow		Digital Electronic Balance(01)			Sansui	back up,
work station –						Multiple
(horizontal flow type)						Circuit
		B.O.D Incubator(01)	V		Lab Line	Breaker, Hand
			,			gloves, High
		Autoclave (01)	√		Dolphin	ventilation
		High Pressure Gas Burner (02)			Fuel king	Windows ,
		Sieve Shaker (01)	√		Fuel king	Students
						wearing
						aprons, mask
						and caps

					during practical.
Department of	Microscope (10)	√		Unilab India	Availability of
Pharmacology Total Laboratories:02 Including a preparation	Hemocytometer (24) Sahli's Haemoglobinometer (20)	√ √	1	Rohem India Silverlite A Q R A	material safety data sheets, electric
room and a separate animal house (CPCSEA		./		SAHLI	earthing, Fire hydrant pump
Approved Registration	Hutchinson's Spirometer 01 Sphygmomanometer (08)	√ √		Orchid Medi Touch	systems, UPS
Number:	Stethoscope10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Konica DX	back up,
1344/ac/10/CPCSEA)	Centrifuge (01)	\ \ \	1	Remi	Multiple Circuit
	Electronic balance (01)	1	V	Sansui	Breaker, Hand gloves, High
	Digital Electrophoresis Apparatus (01)	V	√	Systronics	ventilation Windows ,
	Colorimeter (2)	1	√	Systronics	Students
	Sherington rotating drum(18)	1		INCO Scientific	wearing aprons, mask
				Industries	and caps
	Perspex student organ bath (24)		$\sqrt{}$	Orchid	during

		Actophotometer (01)	V		Omega	practical.
		Rotarod (01)	1		Omega	
		Cook's pole climbing apparatus	V		Omega	
		(01)				
		Eddie's hot plate analgesiometer	V		Orchid	
		(01)				
		Electroconvulsiometer (01)	√		Orchid	
		Digital pH meter (01)	V			
		Bioanalyser	1	√	Curionics	
Department of	20	Steam Distillation Unit-01	V		Metalab	Availability of
Pharmacognosy		Medical microscope-20+5	1	1	Unilab	material safety
Total lab: 01		Mixer-01	√		Bajaj	data sheets,
Includes preparation room,		Refrigerator-01	V	1	Godres axis	electric
crude drug museum and			V	V		earthing, Fire
medicinal plant garden		Table Lamps-06	$\sqrt{}$		Ekvira	hydrant pump
					electrical	systems, UPS
		Heating Mantle	1		Unilab	back up,
		Trinocular microscope-01	V		Olympus	- Multiple Circuit
		Muffle Furnace-01	V		Omkar	

Digital Balance-01	$\sqrt{}$	Sa	ansui	Breaker,	Hand
Digital Camera -01	V	Ca	anon	gloves, ventilatio	High
System UV Cabinet-01	V	Do	olphin	Windows	
Antibiotic zone reader	√	Sp	pacelab	Students wearing	
Incubator	√	M	letalabs	aprons	and
Autoclave	V	De	olphin	•	luring
Digital Colony Counter	V	Do	olphin	practical.	

Table no: 4.2.1d The list of facilities available for patient care, teaching-learning and research

Sr. no	List of facilities
1	B.P apparatus
2	Weighing machine
3	Glucometer
4	Haemoglobinometer
5	Blood group detection kit
6	DHIC
7	Vital Organ Models
8	Organ System Charts
9	Human Skeleton
10	Sick Room
11	First aid box
12	Wheel Chair and Lift
13	Institute vehicle in emergency