

**THE TAMIL NADU DR. M.G.R. MEDICAL
UNIVERSITY, CHENNAI-600 032.**



INSPECTION REPORT

**FOR THE ISSUE OF
CONTINUANCE OF PROVISIONAL AFFILIATION FOR
B.PHARM. DEGREE COURSE WITH 60 INTAKE /
M.PHARM. /PHARM.D & PHARM.D(PB) COURSES**

THE TAMIL NADU DR.MGR.MEDICAL UNVIERSITY,CHENNAI-600 032

INSPECTION REPORT FOR THE ISSUE OF CONTINUANCE OF PROVISIONAL AFFILIATION FOR PHARM.D & PHARM.D (PB) WITH B.PHARM DEGREE COURSE 60 SEATS AND M.PHARM

M.PHARM BRANCHES -----

INTAKE

PHARM.D / PHARM.D (PB) – 30/10

ACADEMIC YEAR: -----

1	Name of the Convener, Designation, contact details		Name of the Member ,Designation, contact details	
	Name: Designation: Address: Phone No: Mail-id:		Name: Designation: Address: Phone No: Mail-id:	
2	University Letter No. and Date in which the Inspection Commission is constituted Date of Inspection			
3	Name and details of Authorities representing the Management present at the time of Inspection.			
4	Name of the society/Trust and its full Registered address (Name of the Chairman / Managing Trustee with Phone Number & E-mail address			
5	a	Name of the Pharmacy College and full address with telephone nos & E-Mail address		
	b	Name of the Principal with contact details Name: Designation; Contact No.		
6	a	Name of the other courses run by the Trust in the same premises	Course	Same /Separate building
b	NOTE: The Inspection committee has to ensure the availability of independent building with adequate infrastructure facilities for the conduct of all courses for the approved intake.			
7	a	G.O. and Date in which permission was accorded to start Pharmacy College		
	b	Whether the trust has obtained minority		
8	PCI approval order for the previous year			
9	a	Proceedings No and Date in which Provisional Affiliation was granted by this University		
	b	Proceedings No and date in which the order of continuance of Provisional Affiliation was last granted to conduct entire B. Pharm degree course and No. of intake of students		

	permitted (Enclose a copy of the order)		
10. A. PHYSICAL INFRASTRUCTURE (LAND & BUILDING)			
Details	Extend in acres	Verified & Signed	
Land including Play Ground /Parking Area	2.5 acre for dist HQ/ Corporation / Municipality limit 0.5 Acres Metro /cities		
Administrative office & Academic Building	3500 sq.ft		
B. DETAILS OF READY–BUILT AREA /TOTAL READY BUILT AREA AVAILABLE FOR ALL COURESE			
Split-up details	Required	Available	Verified & Signed
Principal Office	30 Sq.mts		
i) Administrative Office ii) Academic Record Room iii)Strong room	150 Sq.mts		
Staff Room (including HOD)	10 sq.m X n (n=no. of teachers)		
Class Rooms: B.Pharm Class Rooms: Pharm D Class Rooms: M.Pharm	4 of 75 Sq.mts (or) 4 of 150 Sq.mts with public address system 5 of 60 Sq.mts 1 of 60 Sq.mts for each branch		
Laboratories for B.Pharm & Pharm D & Pharm D (PB) ❖ Laboratories for M.Pharm	13 1 for each branch		
Seminar Hall/ Examination hall	250-300 seating capacity		
Girls Common Room	60 sq. mts		
Boys Common Room	60 sq. mts		
Sick room with first aid	20 sq.mts		
11. LIBRARY DETAILS			
Details	Availability in nos.	Verified and Signed	
Timing			
Journals (a) National (b) International (C) E-Journals			
CD/Back up media details			
No of computer for browsing			
Reading Area with seating capacity			
Photocopier			
Scanner			
Internet with speed			
Audio – Visual & Projector			
12. DETAILS OF FACILITIES AND AMENITIES			

Details of Amenities		Availability	Verified & Signed
Drinking water			
Power back up -50 KVA			
Canteen -100 sq.m			
Auditorium			
Bank			
Post Office			
General Stores			
Sports / Extracurricular (specify if any; List our sport articles)			
Transport No. of. Vehicles with seating capacity			
13. HOSTEL FACILITIES (Desirable)			
		Required	Available
a	For Men For Women	9sq.m. Per Room for Single occupancy 20sq.m.Per Room for Triple occupancy 9sq.m.Per Room for single occupancy 20sq.m.Per Room for Triple occupancy	
14. DETAILS OF RESIDENTIAL QUARTERS (Desirable)			
1	Details of residential quarters provided to the staff. Whether this facility is provided in the same complex or separately?		
	Principal's quarters		80 Sq.mts
	Staff quarters		16 x 80 Sq.mts
	Guest rooms for visitors		80 Sq.mts
15. BALANCE SHEET			
1	a	Latest Balance sheet duly certified by a Chartered Accountant showing the financial soundness to run the Pharmacy College.	
16. FURNITURE			
2	a	Whether adequate furniture are available in the Pharmacy College for staff and students?	
17. HOSPITAL ARRANGEMENTS			
1	a	Whether the college is located in the Proximity of a Medical College or a well-established General Hospital with which the management has an agreement to facilitate training of Pharmacy students in the subjects of Clinical Pharmacy, Hospital Pharmacy. Hospital has an agreement to facilitate training of	

		Pharmacy students in the subjects of Clinical Pharmacy, Hospital Pharmacy, Hospital Administration? (Enclose copy of the order)	
	b	Whether the college has tie up with a General Hospital with a minimum of 100 beds within the radius of 30kms	
	c	If the Tie up is with a Government Hospital, submit the Government order copy	
	d	If it is not your own Hospital, submit the copy of MOU.	
	e	No. of Beds	
	f	Period of tie up	
	g	No. of beds mentioned in Clinical Establishment Registration Certificate.(Copy to be enclosed)	
2		Whether the college possess an Undertaking from a Pharmaceutical manufacturing unit to provide training for 15 days in manufacture and for 15 days in analysis for the IV year B. pharmacy students. (Enclose copy of the undertaking)	
18A. TEACHING STAFF			
1		TEACHING STAFF REQUIRED	
		Whether the Pharmacy College has the Teaching Staff as prescribed in the statutes with reference to the qualifications prescribe in the Pharmacy statutes and PCI regulations	

18B. Enclose the copy of the Teaching faculties uploaded in PCI portal(inspection commission to verify the teaching faculties available with this list)

Name of the Post	Required No	Qualification	Experience
Principal (Any Specification)	1	Qualification <u>B. Pharm.</u> Month & Year of Pass: Class: <u>M. Pharm.</u> Month & Year of Pass: Class: <u>Ph.D.</u> Month & year of Award:	<u>Essential</u> 15 years Experience in teaching or research out of which 5 years must be as professor /HOD in a PCI approved recognized pharmacy college. <u>Desirable</u> Administrative experience in a responsible position.

60:1 for Theory, 20:1 for Practical is the ratio of students faculty .

Department: Pharmaceutics including Pharmaceutical Biotechnology

**All the details of the teaching staff should be filled in these columns only.
No separate attachment for these details.**

Sl.NO	Name of the post	Required for the Strength of 100 students	Available	Shortfall
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		Ist	IInd	IIIrd	IVth	Total		
1	Professor	1	-	1*	-	2		
2	Associate Professor	2	-	-	-	2		
3	Assistant Professor / Lecturer	2 +1*	-	-	-	3		
Name of the Teaching staff	Designation	B. Pharm.		M. Pharm.		Ph. D.		
		Month & Year	Class	Month & Year	Class	Month & Year		

**In addition, two faculty members with M. Pharm. Qualification in concerned specialization with more than five years' experience have to be appointed for each specialization.

* Teaching Faculty for Pharm.D and Pharm.D(PB) courses

** Teaching Faculty for M.Pharm. degree course

Department: Pharmaceutical Chemistry including Pharmaceutical Analysis

Sl.NO	Name of the post	Required for the Strength of 100 students					Available	Shortfall
		Ist	IInd	IIIrd	IVth	Total		
1	Professor	1	-	1*	-	2		
2	Associate Professor	1+1*	-	-	-	2		
3	Assistant Professor / Lecturer	2+1*	-	-	-	3		
Name of the Teaching staff	Designation	B. Pharm.		M. Pharm.		Ph. D.		
		Month & Year	Class	Month & Year	Class	Month & Year		

**In addition, two faculty members with M. Pharm. Qualification in concerned specialization with more than five years' experience have to be appointed for each specialization.

* Teaching Faculty for Pharm.D and Pharm.D(PB) courses

** Teaching Faculty for M.Pharm. degree course

Department: Pharmacology

Sl.NO	Name of the post	Required for the Strength of 100 students					Available	Shortfall
		Ist	IInd	IIIrd	IVth	Total		
1	Professor	1	-	1*	-	2		
2	Associate Professor	1	-	-	-	1		
3	Assistant Professor /	1+1*	-	-	-	2		

Name of the Teaching staff	Designation	B. Pharm.		M. Pharm.		Ph. D.
		Month & Year	Class	Month & Year	Class	Month & Year

**In addition, two faculty members with M. Pharm. Qualification in concerned specialization with more than five years' experience have to be appointed for each specialization.

* Teaching Faculty for Pharm.D and Pharm.D(PB) courses

** Teaching Faculty for M.Pharm. degree course

Department: Pharmacognosy

Sl.NO	Name of the post	Required for the Strength of 100 students					Available	Shortfall
		Ist	IInd	IIIrd	IVth	Total		
1	Professor	1	-	-	-	1		
2	Associate Professor	-	1*	-	-	1		
3	Assistant Professor / Lecturer	1	-	-	-	1		

Name of the Teaching staff	Designation	B. Pharm.		M. Pharm.		Ph. D.
		Month & Year	Class	Month & Year	Class	Month & Year

**In addition, two faculty members with M. Pharm. Qualification in concerned specialization with more than five years' experience have to be appointed for each specialization.

* Teaching Faculty for Pharm.D and Pharm.D(PB) courses

** Teaching Faculty for M.Pharm. degree course

Department: Pharmacy Practice

Sl.NO	Name of the post	Required for the Strength of 100 students					Available	Shortfall
		Ist	IInd	IIIrd	IVth	Total		
1	Professor	-	-	1*	-	1		
2	Associate Professor	1	-	-	-	1		
3	Assistant Professor / Lecturer	1*	-	2*	-	3		

Name of the Teaching staff	Designation	B. Pharm.		M. Pharm.		Ph. D.
		Month & Year	Class	Month & Year	Class	Month & Year

**In addition, two faculty members with M. Pharm. Qualification in concerned specialization with more than five years' experience have to be appointed for each specialization.

* Teaching Faculty for Pharm.D and Pharm.D(PB) courses

** Teaching Faculty for M.Pharm. degree course

18B. PART TIME STAFF

Sl. No	Name of the Post	Required for the Strength of 100 students	Available	Shortfall
1	Assistant Professor of Biostatistics	1		
2	Assistant Professor of Computer Science	1		

Name of the Teaching Staff	Designation	Qualification	Experience

Qualification as per Pharmacy Statutes

MINIMUM REQUIREMENTS OF ACADEMIC QUALIFICATIONS, TEACHING, RESERACH AND INDUSTRY EXPERIENCE FOR THE TEACHING POSTS IN PHARMACY COLLEGE/INSTITUTIONS

B.PHARM DEGREE COURSE

Name of the Post	Academic qualification	Teaching /Research/Industry Experience
Director/Principal/Head of the Institution	<p>First Class B. Pharm with Master's degree in Pharmacy (M. Pharm) in appropriate branch of specialization in Pharmacy or Pharm. D</p> <p>(Qualification must be PCI recognized)</p> <p>With Ph. D degree in any of Pharmacy subjects</p> <p>(Ph. D Qualification must be PCI recognized)</p>	<p>Essential</p> <p>15 years experience in teaching or research out of which 5 years must be as professor / HOD in a PCI approved / recognized pharmacy college.</p> <p>Desirable</p> <p>Administrative experience in a responsible position</p>
Professor	<p>First Class B. Pharm., with Master's degree in Pharmacy (M. Pharm) in appropriate branch of specialization in Pharmacy or Pharm. D</p> <p>(Qualification must be PCI recognized)</p> <p>With Ph. D degree in any of Pharmacy subjects</p>	<p>Essential</p> <p>10 year experience in teaching in PCI approved / recognized pharmacy college or research experience out of which 5 years must be as Associate Professor in PCI approved /recognized Pharmacy College</p>

	(Ph. D Qualification must be PCI recognized)	
Associate Professor	<p>First Class B. Pharm., with Master's degree in Pharmacy (M. Pharm) in appropriate branch of specialization in Pharmacy (Qualification must be PCI recognized)</p> <p>A PCI recognized Pharm. D., degree holder shall also be eligible for the posts of Associate Professor in the subjects of Pathophysiology, Pharmacology and Pharmacy practice.</p> <p>Associate Professor shall acquire PCI recognized Ph. D., in any Pharmacy subjects within 7 years to become eligible for the post of Professor.</p>	3year's experience in teaching or research at the level of Assistant Professor or equivalent in PCI approved /recognized pharmacy college.
Lecturer/Assistant Professor	<p>First Class B. Pharm., with Master's degree in Pharmacy (M. Pharm) in appropriate branch of specialization in Pharmacy (Qualification must be PCI recognized)</p> <p>A PCI recognized Pharm. D., degree holder shall also be eligible for the posts of Lecture / Assistant Professor in the subjects of Pathophysiology, Pharmacology and Pharmacy practice.</p>	A Lecturer will be re-designated as Assistant Professor after 2 years of teaching experience in PCI approved/recognized Pharmacy College.

Note: As approved by the PCI's "Minimum Qualification for Teachers in Pharmacy Institutions Regulations, 2014

- ❖ Teaching Faculties those who were appointed before Nov 14 shall not be affected while mentioning class for B. Pharm /M. Pharm. However, promotion of such faculty should be governed by "Minimum Qualification for Teachers in Pharmacy Institutions Regulations, 2014
- ❖ I Class shall be taken into consideration for the faculties those who were appointed after Nov 2014

19. PHYSICAL VERIFICATION OF THE TEACHING STAFF

1	Whether the teaching staff required for conducting B. Pharm., Degree Course are Physically present at the time of Inspection?	
2	Whether Teaching Staff Declaration furnished in the enclosed Affidavit?	
3	Whether Passport size Photo affixed and signed by the individual and the Notary Public with seal and Countersigned by the Principal of Pharmacy College?	
4	After Physical Verification of the teaching Staff, the Affidavit has to be signed by the Convenor and Member of the Inspection Commission and .sent to the University along with the Inspection Report.	
5	Notary Public sign and seal should be obtained in all pages of the Affidavit	

20. NON PROFESSIONAL POSTS

S.NO.	NAME OF THE POST	REQUIRED Nos.	QUALIFICATION	AVAILABLE	SHORTFALL
1	Librarian	1	M. Lib.,		
2	Assistant Librarian	1	D. Lib.,		
3	Library Attenders	2	10+2/PUC		
4	Office Superintendent	1	Degree		
5	Office Staff Gr.I	1	Degree		
6	Office Staff Gr.II	1	Degree		
7	Accountant	1	Degree		
8	Storekeeper	1	D.Pharm. / Degree		
9	Computer Operator	1	BCA/Graduate with Computer Courses		
10	Gas Mechanic		1		
11	Electrical Assistant		1		
12	Physical Education Director (Part- Time)		1		
13	Physical Education Marker (Part- Time)		1		

21. OTHER SUPPORTING STAFF

14	Laboratory Technician	1 for each Dept.	D. Pharm., or B. Pharm., or B. Sc., degree with Chemistry as major and Botany or Zoology as ancillary or Botany or Zoology as major with Chemistry or Physics as ancillary.		
	Laboratory /Assistant / Attended	1 for each lab (minimum)	SSLC		
	Office Assistant	1/adequate	Degree		
	Peon	2	SSLC		
	Sweeper /Cleaning Personnel	1/adequate			
	Gardener	1/adequate			

22. Whether the pharmacy College is fully Equipped with the following?		
1	Whether adequate chemicals and glass wares are available? (Furnish the list of chemical and glassware purchased in the previous academic year along with the tax invoice)	
2	Whether all equipments essential as per the syllabus are available? (Furnish the list of Equipment purchased in the previous academic year along with the tax invoice)	
3	Whether Laboratory with a minimum space of 75 sq .mts. is available?	
4	Whether provision for Laboratory staff room, preparation room are available?	
5	Whether a laboratory furnished with water, gas, drainage connection in the table at suitable points?	
6	Whether each laboratory is fitted with work benches and furniture required for 20 students in a batch as per the standard specification?	
7	Whether all the laboratories have good lighting, ventilation and sufficient number of door for any emergency?	
8	Whether adequate number of Exhaust Fans and Fire Extinguishers are available in each Laboratory?	
9	Whether a Petrol Gas Plant or LPG Gas supply is provided?	
10	Whether adequate electrical connection with voltage stabilizers for the safety of the sensitive analytical equipment is available?	
11	Whether all laboratory provided with Hot plates, Heating mantles, Driers, vacuum pumps, Deioniser & Distilled water stills.	
12	Whether the college is equipped with the Analytical and other laboratories with the latest standard equipments required as per the syllabus?	
13	Whether a Medicinal Garden is provided to grow at least 250 medicinal plants?	
14	Whether a Machine Room of 80 sq.m is provided with electrical plug points for fixing all the pharmaceutical machineries required as per the syllabus and making them operational	
15	Whether a room of 10sq.m with a Laminar flow unit and A/C for aseptic dispensing and other Microbiological work is available	
16	Whether a Research Laboratory with a minimum space of 75sq.m is available ?	
17	Whether a Multipurpose Hall to accommodate 250 students is provided with facilities like audio –visual aids?	
18	Whether the college has an Auditorium ?	
19	Whether a Store –Room I & II for chemicals and glass ware in a minimum space of 100sq.m and 20sq.m respectively are available?	
20	Whether Sectional Library is available in each Department?	
21	Is AMC signed for the equipment costs above 15 lakhs /Sensitive equipment	
22	Whether the college has Faculty and Students Recreation Hall ?	
23	Whether a Multipurpose Hall to accommodate 250 Students is provided with facilities like audio-visual aids?	
24	Whether Animal experimental software is available for the conduct of Physiology & Pharmacology experiments	
25	Whether a Museum of 50sq m is set up with display of crude drugs?	
26	Whether a Central Instrumentation Room of 80sq.m. with Ac	

	for setting up of all modern analytical equipments is available? (Equipment list enclosed for verification)	
27	Whether all laboratories are functional at the time of inspection?	
28	Whether a Multipurpose Hall to accommodate 250 students is provided with facilities like audio-visual aids?	
29	Whether all the infrastructural facilities required for the conduct of entire course are continued to be provided by the college ?	
22. UNIVERSITY FEE (Furnish copies of Remittance)		
1	Whether the Institution has remitted the Inspection Fee?	
SPECIFIC OBERVATION OF THE INSPECTION COMMISSION		
(Separate note may be enclosed)		

PLACE:

DATE:

SIGNATURE OF THE MEMBER

SIGNATURE OF THE CONVENOR

NAME IN BLOCK LETTERS

NAME IN BLOCK LETTERS

Hospital Requirements for running Pharm D ., or Pharm D. and Pharm D., (Post Baccalaureate)
courses:- Hospital Details

SNO	Name /Infrastructure	Minimum required Nos.	Provided	Remark of the Inspectors
1	Hospital*with teaching facility Minimum 300 bedded Hospital	Nature of Hospital - Own - Teaching hospital recognized by MCI or University - Govt. Hospital not below the level of district hospital - Corporate Hospital		
2	Place for Pharmacy Practice Department	Minimum carpet area of 3 sq. mts per student along with consent ti provide the professional manpower to support the programme		
3	Available specialties++	Medicine (compulsory) (Any three of the following) • Surgery • Pediatrics		

		<ul style="list-style-type: none"> • Gynecology and obstetrics • Psychiatry • Skin and VD • Orthopedics 		
4	<p>Location of the Hospital</p> <p>Give details</p>	<p>Within the same limits of corporation or Municipality or campus with medical Faculty involvement as adjunct faculty</p>		

- ❖ Approval letter of the Hospital Authority to be annexed along with MOU
- ❖ Inspectors are required to personally verify the space provided at the hospital and meet the hospital administrators for interaction.
- ❖ To be certified by the Dean/Director/Medical Supdt.of the hospital

Pharmaceutics	1		2		-				
Pharmaceutical Chemistry	2		-						
Pharmaceutical Analysis	-		-				1		
Pharmacology	1		1						
Pharmacognosy / Remedial Biology	1		-						
Pharmaceutical Biotechnology	-		1						
Computer Lab	1		-						
Pharmacy Practice Lab			-				2		
Total no. of Labs for B.Pharm & Pharm D course	6		4				3		

3	Preparation Room for each lab (one room can be shared by two labs, if it is in between two labs)	10 Sq.mts (minimum)		
4	Area of the Machine Room	80-100 sq.mts		
5	Central Instrumentation Room	80 sq.mrts with AC		
6	Store room - I	1 (Area 100 sq.mts)		
7	Store Room – II (for Inflammable chemicals)	1 (Area 20 sq.mts)		

PART V – DOCUMENTATION

Records Maintained : Essential

Sl.no.	Records	Yes	No.	Remarks of the Inspectors
1	Admissions Registers			
2	Individual Service Register			
3	Staff Attendance Registers			
4	Sessional Marks Register			
5	Final Marks Register			
6	Student Attendance Registers			
7	Minutes of meetings – Teaching Staff			
8	Fee Paid Registers			
9	Acquaintance Registers			
10	Accession Register for books and Journals in Library			

	Log book for chemicals and equipment costing more than Rupees one lakh			
11	Job Card for Laboratories			
12	Standard Operating Procedures (SOP's) for Equipment			
13	Laboratory Manuals			
14	Stock Register for equipment			
15	Animal House Records as per CCSEA			

*** PART VII – EQUIPMENT AND APPARATUS**

Department wise list of minimum equipments required for B. Pharm (for a batch of 20 students)

DEPARTMENT OF PHARMACOLOGY

Equipments:

S. No.	Name	Minimum required Nos.	Available Nos.	Working	Remarks of the
1	Microscopes	15			
2	Haemocytometer with Micropipettes	20			
3	Sahli's haemocytometer	20			
4	Hutchinson's spirometer	01			
5	Spygmomanometer	05			
6	Stethoscope	05			
7	Permanent Slides for various tissues	One pair of each tissue Organs and endocrine			
8	Models for various organs	One model of each organ system			
9	Specimen for various organs and systems	One model for each organ system			
10	Skeleton and bones	One set of skeleton and one spare			
11	Different Contraceptive Devices and Models	One set of each device			
12	Muscle electrodes	01			
13	Lucas moist chamber	01			
14	Myographic lever	01			
15	Stimulator	01			
16	Centrifuge	01			
17	Digital Balance	01			
18	Physical /Chemical Balance	01			
19	Sherrington's Kymograph Machine / Polyrite	10			

20	Sherrington Drum	10			
21	Perspex bath assembly (single	10			
22	Aerators	10			
23	Computer with LCD	01			
24	Software packages for experiment	01			
25	Standard graphs of various drugs	Adequate number			
26	Actophotometer	01			
27	Rotarod	01			
28	Pole climbing apparatus	01			
29	Analgesiometer (Eddy's hot plate and radiant	01			
30	Convulsimeter	01			
31	Plethysmograph	01			
32	Digital pH meter	1			

Apparatus:

Sl. No.	Name	Minimum required Nos	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Folin-Wu tubes	60			
2	Dissection Tray and	10			
3	Haemostatic artery	10			
4	Hypodermic syringes and needles of size	10			
5	Levers, cannulae	20			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

DEPARTMENT OF PHARMACOGNOSY

Equipments:

Sl. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Microscope with stage micrometer	15			
2	Digital Balance	02			
3	Autoclave	02			
4	Hot air oven	02			
5	B.O.D. Incubator	01			
6	Refrigerator	01			
7	Laminar air flow	01			
8	Colony counter	02			
9	Zone reader	01			
10	Digital pH meter	01			
11	Sterility testing unit	01			
12	Camera Lucida	15			
13	Eye piece micrometer	15			
14	Incinerator	01			
15	Moisture balance	01			
16	Heating mantle	15			

17	Flourimeter	01			
18	Vacuum pump	02			
19	Micropipettes (Single and multi channeled)	02			
20	Micro Centrifuge	01			
21	Projection Microscope	01			

Apparatus:

Sl. No.	Name	Minimum required	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Reflux flask with	20			
2	Water bath	20			
3	Clavengers apparatus	10			
4	Soxhlet apparatus	10			
6	TLC chamber and	10			
7	Distillation unit	01			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

Sl. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Hot plates	05			
2	Oven	03			
3	Refrigerator	01			
4	Analytical Balances for	05			
5	Digital balance 10mg	10			
6	Digital Balance (1mg	01			
7	Suction pumps	06			
8	Muffle Furnace	01			
9	Mechanical Stirrers	10			
10	Magnetic Stirrers with	10			
11	Vacuum Pump	01			
12	Digital pH meter	01			
13	Microwave Oven	02			

Apparatus:

Sl. No.	Name	Minimum required	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Distillation Unit	02			
2	Reflux flask and	20			
3	Reflux flask and	20			
4	Burettes	40			
5	Arsenic Limit Test	20			
6	Nessler's Cylinders	40			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

DEPARTMENT OF PHARMACEUTICS**Equipments:**

Sl. No.	Name	Minimum Requi	Avai lable Nos.	Working Yes / No	Remarks of the Inspectors
1	Mechanical stirrers	10			
2	Homogenizer	05			
3	Digital balance	05			
4	Microscopes	05			
5	Stage and eye piece micrometers	05			
6	Brookfield's viscometer	01			
7	Tray dryer	01			
8	Ball mill	01			
9	Sieve shaker with sieve set	01			
10	Double cone blender	01			
11	Propeller type mechanical agitator	05			
12	Autoclave	01			
13	Steam distillation still	01			
14	Vacuum Pump	01			
15	Standard sieves, sieve no. 8, 10, 12,22,24, 44,	10 sets			
16	Tablet punching machine	01			
17	Capsule filling machine	01			
18	Ampoule washing machine	01			
19	Ampoule filling and sealing machine	01			
20	Tablet disintegration test apparatus IP	01			
21	Tablet dissolution test apparatus IP	01			
22	Monsanto's hardness tester	01			
23	Pfizer type hardness tester	01			
24	Friability test apparatus	01			
25	Clarity test apparatus	01			
26	Ointment filling machine	01			
27	Collapsible tube crimping machine	01			
28	Tablet coating pan	01			
29	Magnetic stirrer, 500ml and 1 liter capacity	05			
30	Digital pH meter	01			
31	All purpose equipment with all accessories	01			
32	Aseptic Cabinet	01			
33	BOD Incubator	02			
34	Bottle washing Machine	01			
35	Bottle Sealing Machine	01			
36	Bulk Density Apparatus	02			
37	Conical Percolator (glass/ copper/ stainless	10			
38	Capsule Counter	02			
39	Energy meter	02			
40	Hot Plate	02			
41	Humidity Control Oven	01			
42	Liquid Filling Machine	01			
43	Mechanical stirrer with speed regulator	02			
44	Precision Melting point Apparatus	01			
45	Distillation Unit	01			

Apparatus:

Sl. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the
1	Ostwald's viscometer	15			
2	Stalagmometer	15			
3	Desiccator *	05			
4	Suppository moulds	20			
5	Buchner Funnels (Small, medium,	05 each			
6	Filtration assembly	01			
7	Permeability Cups	05			
8	Andreason's Pipette	03			
9	Lipstick moulds	10			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

PHARMACEUTICAL BIOTECHNOLOGY

Sl. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Orbital shaker incubator	01			
2	Lyophilizer (Desirable)	01			
3	Gel Electrophoresis (Vertical and Horizontal)	01			
4	Phase contrast/Trinocular	01			
5	Refrigerated Centrifuge	01			
6	Fermenters of different capacity (Desirable)	01			
7	Tissue culture station	01			
8	Laminar airflow unit	01			
9	Diagnostic kits to	01			
10	Rheometer	01			
11	Viscometer	01			
12	Micropipettes (single and multi channeled)	01 each			
13	Sonicator	01			
14	Respinometer	01			
15	BOD Incubator	01			
16	Paper Electrophoresis Unit	01			
17	Micro Centrifuge	01			
18	Incubator water bath	01			
19	Autoclave	01			
20	Refrigerator	01			
21	Filtration Assembly	01			
22	Digital pH meter	01			

b: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

PHARMACY PRACTICE

Equipments:

S. No.	Name	Minimum required Nos	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Colorimeter	2			
2	Microscope	Adequate			
3	Permanent slides (skin, kidney, pancreas, smooth muscle, liver etc.,)	Adequate			
4	Watch glass	Adequate			
5	Centrifuge	1			
6	Biochemical reagents for analysis of normal and pathological constituents in	Adequate			
7	Filtration equipment	2			
8	Filling Machine	1			
9	Sealing Machine	1			
10	Autoclave sterilizer	1			
11	Membrane filter	1 Unit			
12	Sintered glass funnel with complete	Adequate			
13	Small disposable membrane filter for IV	Adequate			
14	Laminar air flow bench	1			
15	Vacuum pump	1			
16	Oven	1			
17	Surgical dressing	Adequate			
18	Incubator	1			
19	PH meter	1			
20	Disintegration test apparatus	1			
21	Hardness tester	1			
22	Centrifuge	1			
23	Magnetic stirrer	1			
24	Thermostatic bath	1			

NOTE:

1. Computers and Internet connection (Broadband), six computers for students with internet and staff computers as required.
2. Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and the department.

CENTRAL INSTRUMENTATION ROOM

S. No.	Name	Minimum Required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Colorimeter	01			
2	Digital pH meter	01			
3	UV- Visible	01			
4	Flourimeter	01			
5	Digital Balance (1mg	01			
6	Nephelo Turbidity meter	01			

7	Flame Photometer	01			
8	Potentiometer	01			
9	Conductivity meter	01			
10	Fourier Transform InfraRed Spectrometer (Desirable)	01			
11	HPLC	01			
12	HPTLC (Desirable)	01			
13	Atomic Absorption and Emission spectrophotometer	01			
14	Biochemistry Analyzer (Desirable)	01			
15	Carbon, Hydrogen, Nitrogen Analyzer (Desirable)	01			
16	Deep Freezer (Desirable)	01			
17	Ion- Exchanger	01			
18	Lyophilizer (Desirable)	01			