

**Schedule XXXII (Only for PG Institute)**  
**Minimum required facilities for Central Research Laboratory**

Phytochemical test facility		Available / Not Available	Deficiency
1.	<b>Qualitative</b>	<b>Not applicable</b>	
	1.Organic tests		
	2.Inorganic tests		
	3.Fluorescence analysis of powders		
	4.Chromatography		
	i. TLC (Thin Layer Chromatography)		
	ii. NPST (Namboori Phased Spot Test)		
	iii. Column Chromatography		
2.	<b>Pharmacognostic</b>		
	(a) Authentication		
	(b) Macroscopic		
	(c) Section microscopy		
	(d) Powder microscopy		
	(e) Microtome section		
	(f) Multiple staining and permanent slide preparation		
	(g) Digital microscopy		
	(h) Quantitative microscopy (Stomata number, Stomatal Index, Palisade number, Vein islet number)		
3.	<b>Microbiological</b>		
	(a) Microbial limits		
	i. Total bacterial count		
	ii. Total Fungal count		
	iii. Tests for specific pathogens		
	(b)Antimicrobial study (Cup Plate method, MIC and MBC)		
	i. Antibacterial		
	ii. Antifungal		
	(c) Microbial culture		
	i. Water		
	ii. Clinical Swab		
4.	<b>Invitro Studies:</b>		
	(a) Antioxidant		
	(b) Immunomodulatory		
	(c) Antimicrobial		
	<b>Quantitative</b>		
1.	Flame photometry Calcium, Sodium, Potassium,		
2.	UV Spectrophotometry		
	(a) Phenols, Flavonoids, Carbohydrate, Proteins, Sugar, Iron etc		

  
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