



# PES Institute of Medical Sciences & Research

Kuppam- 517 425, Chittoor Dist., Andhra Pradesh

Tel: 08570 - 277999, 277799, 277666

Email: [principal@pesimsr.pes.edu](mailto:principal@pesimsr.pes.edu) Web: [www.pesimsr.pes.edu](http://www.pesimsr.pes.edu)

## NAAC Criterion 4: Infrastructure and Learning Resources

### 4.2 Clinical, Equipment and Laboratory Learning Resources

#### 4.2.3: Average number of students per year exposed to learning resource such as Laboratories, Animal House & Herbal Garden during the last five years





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## Details of the Laboratories, Animal House & Herbal Garden



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**CRITERIA 4.2.3**

**DETAILS OF THE LABORATORIES, ANIMAL HOUSE & HERBAL GARDEN**

**ANATOMY LABORATORY**

**Practical Laboratories :**

- A) Dissection Hall : YES**
- a) Accommodation :
- i) Size : **325 sq.mts.**
- ii) Capacity : **150 Students**
- a) Number and arrangement of tables
- i) Big : **24**
- ii) Small : **08**
- b) Hygiene and Drainage facilities for Disposal of Discarded parts.  
**Yes, Available adjacent to dissection hall measuring 45'x 60 feet covered with mesh & compounded and lock.**
- c) Mode of disposal of discarded parts :  
**Buried in burial ground (Back side of Dissection Hall)**
- d) Washing arrangement : **Provided**  
No. of wash basins provided : **Provided with 15 Taps**
- f) No. of lockers provided for students : **166 Lockers**
- g) Lighting and exhaust arrangements : **Sufficient light & ventilation provided.**  
**Exhaust fans are provided – 12 nos**
- h) Special Instruments other than routine Dissection sets  
( such as Electric saw etc.)  
**Bone cutting saw available**  
**Motorized compressed air embalming machine - 02 nos.**
- i) Extra Learning Aids provided in the Dissection Hall :  
(Skeleton, Charts, Black Board etc.)  
**LED-TV-1, 08 Skeletons, charts, and black board are available**
- j) Cadaver Preservation Facilities :
- i) Embalming room
- Size : **12 sq.mts**
  - Location : **Adjacent to Dissection hall**
- ii) Storage Tanks



  
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- Number : 06 Nos
- Size : 1 no of 3 Sq.m & 3nos of 1.5 sq.m.
- iii) Cold room/cooling cabinets : Available
  - Size : 18 sq.mts
  - Capacity : 18 Bodies
- iv) No. of Cadavers available : 58 Cadavers
- v) No. of students allotted per cadaver : 10 Students/Cadaver

**B) Histology Laboratory**

(a) Accommodation

- Size : 200 sq.mts
- Capacity : 90 Students

(b) Working arrangement

- a. Seats available : **Revolving stools available**
  - Cupboard for storage of microscope slides etc. :  
**Provided 6 cabinets, 2000 slides**
- b. Number of Microscopes : **97 Microscopes**
- c. Number of students to each Microscope : **One each**

(c) Preparation room

- Size : 18 sq.mts.
- Location : **Adjacent to histology lab**

(d) Whether Laboratory Manuals kept by students? Yes/No : **YES**

(e) Close circuit TV/Demonstration Microscope/any other teaching aids :

**OHP, Slide projector, LCD Projector**  
**Olympus microscope – Television attached for projection of slides**  
**Pentahead Microscope – Available.**  
**LED TV Available.**

**(iv) Research Laboratory**

- a) Size : 50 sq.mts

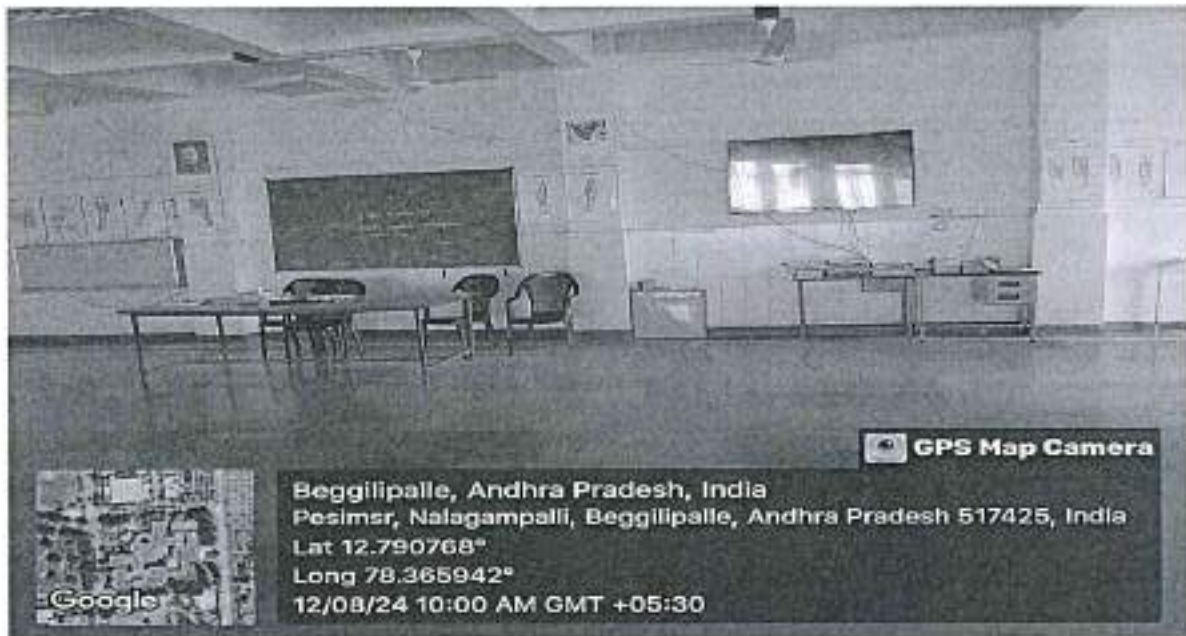


  
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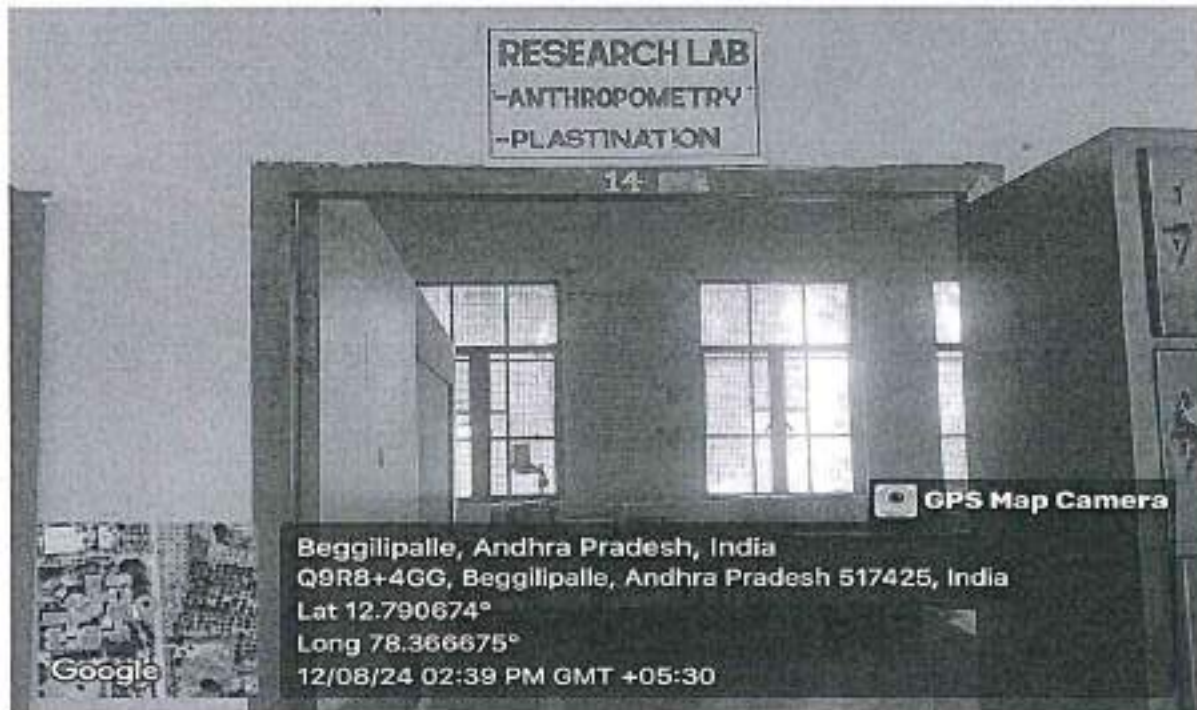
- b) Equipment : Micro tome, Binocular Microscopes -03, Laboratory centrifuge, Distilled water Plant (Small), Common balancer, Refrigerator, Hot air oven, Anthropometry scales.



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**PHYSIOLOGY LABORATORY**

**PRACTICAL LABORATORIES:**

	<b>Clinical Physiology Lab</b>	<b>Hematology Lab</b>
a) Accommodation		
1. Size	<b>118 sqm</b>	<b>236sqm</b>
2. Capacity	<b>90</b>	<b>90</b>
b) Working arrangement		
1. Seats available	<b>: 50</b>	<b>: 50</b>
2. Water supply	<b>: Provided</b>	<b>: Provided</b>
3. Sinks	<b>: Provided</b>	<b>: Provided</b>
4. Electrical Points	<b>: Provided</b>	<b>: Provided</b>
5. Cupboard for storage of Microscopes, slides etc	<b>: Provided</b>	<b>: Provided</b>
c) Number of Microscopes :60 + 8		
d) No. of students to each microscope :01		
f) Preparation room : <b>Available</b>		
1. Size : <b>14 Sqm X 3</b>		
2. Location : <b>01 each in Amphibian, Mammalian &amp; Haematology Lab</b>		
g) Whether Lab Manuals kept by students: <b>Yes</b>		
h) Close circuit TV/demonstration Microscope/any other teaching aids. : <b>Available</b>		

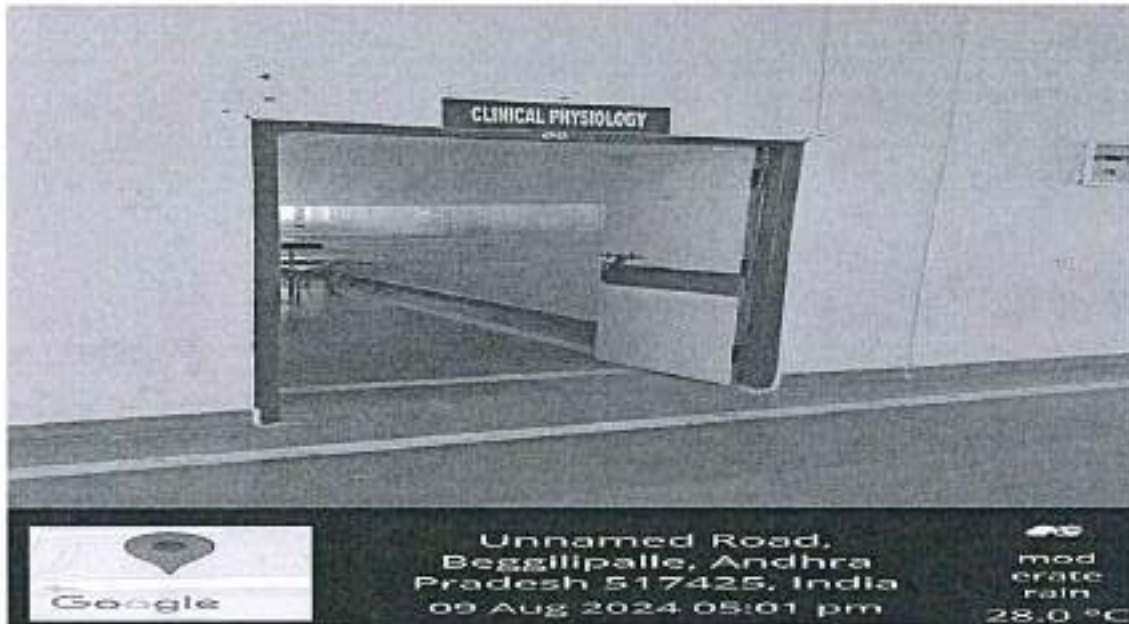


  
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**RESEARCH LABORATORY :**

Size : 54.53 Sqm



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overcast clouds 29.0 °C

Pesimr, Nalagampalli,  
Beggilipalle, Andhra  
Pradesh 517425, India  
09 Aug 2024 05:00 pm

PES  
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3.3.2

Google



moderate rain 28.0 °C

Unnamed Road,  
Beggilipalle, Andhra  
Pradesh 517425, India  
09 Aug 2024 05:02 pm

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**BIOCHEMISTRY LABORATORY**

**PRACTICAL CLASS ROOM/LABORATORIES:**

- a) Accommodation 1 No
- Siz 200 Sq.mt.
  - Capacity: 90
- b) Working arrangement
1. Seats available: 90 Seats available
- Water supply: Adequately provided
  - Sinks :provided in each table
  - Electric points: Provided adequately
  - Cupboard for storage of microscopes: Available
  - Preparation room(anterooms):02
  - Size:14.5 Sq.mt each
  - Capacity:02
- c) Whether laboratory manual kept by students: YES Yes / No
- a) Close circuit T.V./Any other teaching aids. **Black Board / Charts , OHP, LCD Projector & ScreenSMART TV**



  
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Sl. No	RACKS
1	Bendict's Reagent
2	Acetic Acid
3	Saturated Picric Acid
4	Sodium Nitrite
5	Potassium Oxalate
6	Sulphosalicylic Acid
7	Ammonium Sulphate
8	Sodium Hydroxide
9	Barium Chloride
10	Silver Nitrate
Sl. No	SIDE TABLES
1	Saturate With Solid (NH <sub>4</sub> ) SO <sub>4</sub>
2	Sodium Nitroproside
3	Liquar Ammonia
4	Sulphur Powder
5	Benzidine Powder
6	Fouchet's Reagent
7	Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )
8	Phophotangstic Acid
9	Nitric Acid (Con:HN CO <sub>3</sub> )
10	Ammonium Molybdate
11	Phenolphthalalein indicator
12	CON: HCL Hydrochloric Acid
13	Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )
14	Litmus Paper (Red & Blue)
15	Litmus Paper (Red & Blue)



  
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## U.G. LAB (list of chemicals)

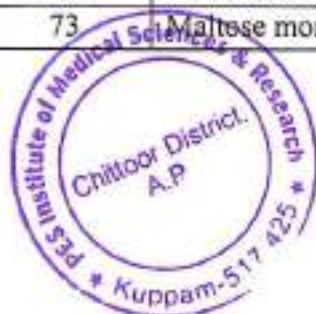
Sl.No	Name of the chemical
1	Ammonium acetate
2	Ammonia solution
3	Alpha-naphthol-2
4	Ammonium ferric sulphate
5	1-naphthol-3
6	Ammonium ferric sulphate-2
7	Activated charcoal powder-1
8	Acetic Anhydride
9	Ammonium sulphate purified-5
10	Ammonium sulphate purified-5
11	Ammonium molybdate tetra hydrate-5
12	Acetic Acid-2
13	Benzoic Acid-2
14	Barium Chloride-7
15	Barium Chloride-5
16	Butanol-4
17	Bromo cresol green
18	Bromo cresol green
19	4-4 Diamino biphenyl-3
20	Cupric sulfate-2
21	Cupric sulfate-10
22	Copper(II)sulfate-5hydrate pure
23	Copper(II)acetate-1-hydratepurified-4
24	Calcium chloride-3
25	Calcium chloride-2
26	Calcium chloride-1
27	Cholestrol-2
28	Copper (II) acetate monohydrate
29	Caffeine anhydrous pure-1
30	Citric acid monohydrate-4
31	Creatinine-5
32	Creatinine extra pure-3
33	Chloroform-7
34	Casein-3
35	Casein-2



  
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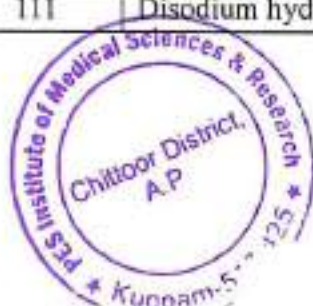
36	Casiem-2
37	Dextrose anhydrous extra pure-1
38	D-(+)-glucose anhydrous-4
39	P-Dimethyl amino benzaldehyde-4
40	P-Dimethyl amino benzaldehyde-2
41	Dimethyl yellow (indicator)-1
42	Dodeca tungsto phosphoric acid-1
43	Diacetyl monoxime-2
44	Dimethyl glyoxime
45	Ehrlich's reagent-2
46	Eosin yellow-2
47	Ethanol-6
48	Formaldehyde-2
49	Glass beads-1
50	Fructose-4
51	Ferric chloride-2
52	Fouchet's reagent-5
53	Gelatin-2
54	Hydrogen peroxide-4
55	Iron(III)chloride anhydrous-5
56	Iron(III)chloride anhydrous-5
57	Lead oxide-1
58	Lead oxide-2
59	Liquor ammonia-6
60	Lead acetate-5
61	Lead acetate-2
62	Lactose-5
63	Lactose-1
64	Leishman stain-1
65	Leishman stain-4
66	Lactic acid-90%
67	Magnesium sulphate-5
68	Molybdic acid-8
69	Molybdenum trioxide-2
70	Liquor ammonia-6
71	Methanol-5
72	Methanal-1
73	Maltose monohydrate crystals-9



  
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74	Maltose monohydrus bacto
75	Ninhydrin-2
76	Ninhydrin-5
77	Ninhydrin-1
78	L-naphthol-3
79	L-naphthol-1
80	Mercuric sulfate-2
81	O-toludine-2
82	O-toludine-1
83	Orthophosphoric acid-8
84	Picric acid-4
85	Picric acid-1
86	Picric acid-2
87	potassium oxalate-6
88	phenolphthalein indicator-2
89	phenolphthalein solution
90	potassium hydroxide pellets AR-2
91	potassium oxalate-4
92	potassium iodide-3
93	potassium iodide-extra pure-1
94	potassium thiocynate-3
95	potassium thiocynate-1
96	potassium sodium tartrate extra pure-4
97	potassium sodium tartrate tetra hydrate-2
98	phenolphthalein certified-4
99	phenolphthalein reagent-5
100	phenol-1
101	Phospho molybdic acid-10
102	Phospho molybdic acid-1
103	Potassium chloride purified-2
104	potassium dichromate-2
105	potassium chromate-1
106	potassium permanganete-1
107	pumice stone-1
108	potassium dihydrogen ortho po4
109	potassium dihydrogen ortho po4
110	Di potassium oxalate monohydrate-2
111	Disodium hydrogen ortho po4-3



  
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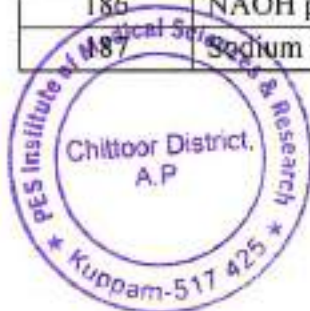
112	peptone-3
113	potassium nitrate-1
114	potassium nitrate-1
115	potassium dihydrogenpo4-1
116	phospho tungstic acid-16
117	sodium carbonate-2
118	sodium carbonate-2
119	sodium carbonate-1
120	sodium tungstate-1
121	sodium tungstate-2
122	sodium tungstate-3
123	silver naitrate-6
124	stannous chloride-2
125	sodium benzoate-3
126	sodium fluoroide-1
127	sodium bisulphate-1
128	sodium meta bisulphate-2
129	sodium hydrogen carbonite-1
130	surcose-3
131	sodium sulphate anhyd-1
132	Sudan(111)-1
133	sodium azide-2
134	Surgical spirit-4
135	Starch-3
136	Starch-4
137	Starch-1
138	sulphur powder-1
139	sulphur powder-2
140	Sodium chloride-4
141	sodium chlorode-2
142	sodium sulphate -2
143	sodium chloride-1
144	sodium nitroprusside-2
145	sodium nitroprusside-6
146	sulfanilic acid-2
147	1 amino2 naphtol4sulfonilic acid-1
148	schiffs reagent-3
149	Salicylic acid-2



  
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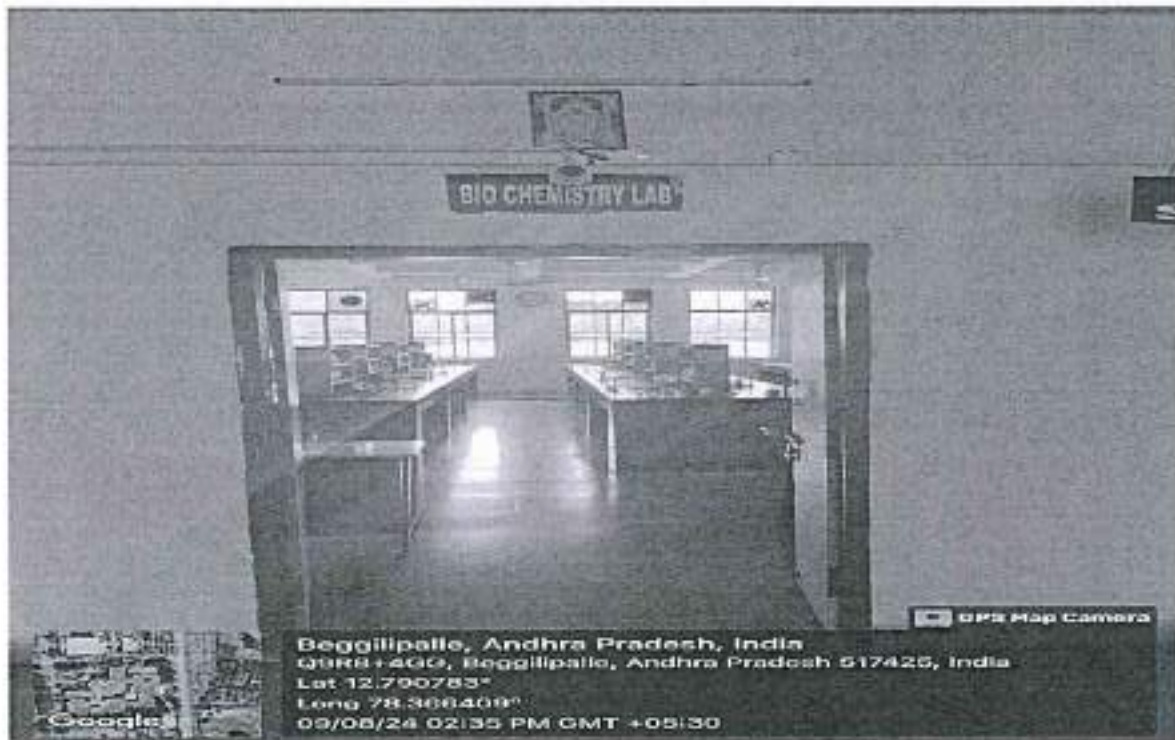
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150	sulfosalicylic acid-4
151	sulfosalicylic acid-1
152	sulfosalicylic acid-3
153	Dettol-1
154	sodium hydroxide-1
155	sodium acetate-3
156	sodium acetate anhydrous-3
157	sodium acetate extra pure-1
158	sucrose-1
159	sodium nitrate-3
160	sodium nitrate purified-1
161	sodium nitrate purified-3
162	sodium hydrogen sulphate-2
163	sodium hydrogen sulphate-EP-1
164	trisodium citrate dihydrate-1
165	trisodium citrate dihydrate-4
166	thiourea-1
167	toluene sulphur free LR-5
168	trichloro acetic acid-1
169	thiosemi carabazide-5
170	L tartaric acid-2
171	L tartaric acid-1
172	urea-6
173	urea-1
174	uric acid-3
175	uric acid-2
176	uric acid-3
177	Resorcinol-1
178	Resorcinol crystal-2
179	Resorcinol-1
180	Nitric acid-6
181	Ammonium solution-2
182	sulphuric acid-2
183	Acetic acid-4
184	Methanol-1
185	Acetone-1
186	NAOH pellets-4
187	Sodium fluoride-1



  
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**PHARMACOLOGY LABORATORY**

**PRACTICAL LABORATORIES:**

**Computer Assisted Laboratory**

**Clinical Pharmacology**

- |   |                                   |             |
|---|-----------------------------------|-------------|
| a) Accommodation                                      |                                   |             |
| • Size  | 200 Sq.m.                         | 200 Sq.m.   |
| • Capacity  | 90 students                       | 90 students |
| b) Working arrangement                                |                                   |             |
| 1. Seats available                                    | Available                         | Available   |
| c) Ante-room/preparation room                         |                                   |             |
| • Size  | 14.75 Sq.m.                       | 14.75 Sq.m. |
| • Location  | Adjacent to Computer Assisted lab |             |
| d) Whether Laboratory Manuals maintained by students? |                                   | Yes         |
| e) Close circuit TV/any other teaching aids           |                                   | Yes         |
| f) Charts & computers are provided                    |                                   | Yes         |



  
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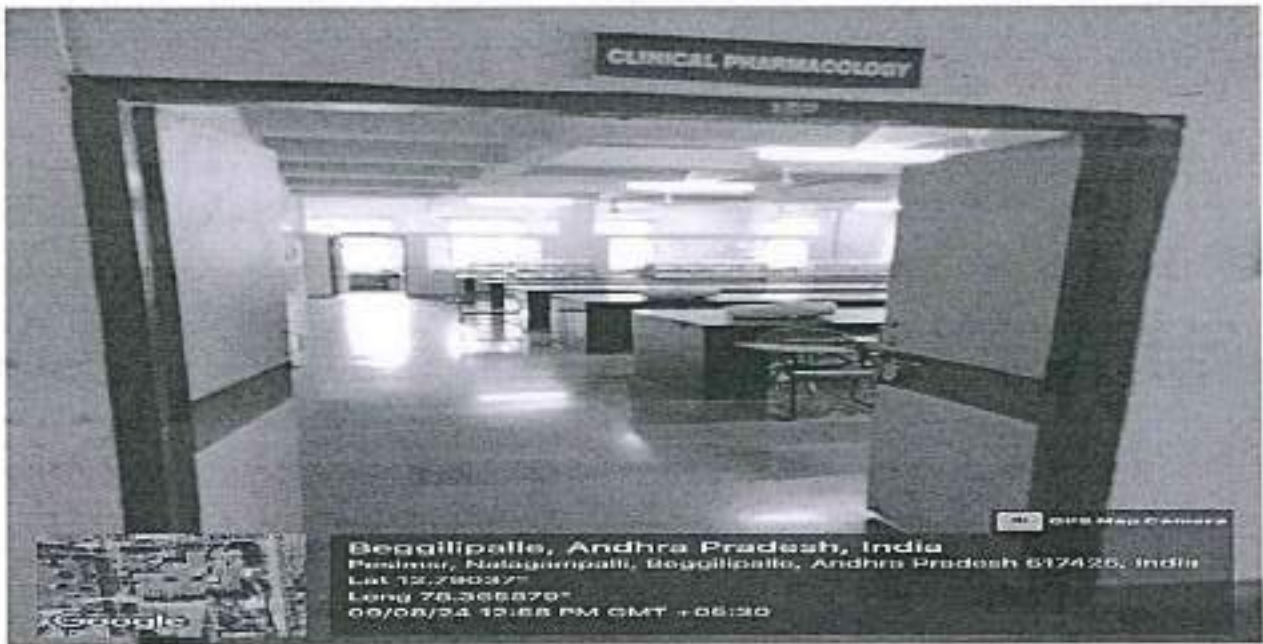
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Sl. No.	ITEM/EQUIPMENT
1	Computers(CAL)
2	Manikins for demonstration of Intravenous / Intramuscular / Subcutaneous
3	Drug Samples of dosage formulations of various types
Sl. No	DOSAGE FORM
1	MDI (Salbutamol)
2	Rotahaler
3	Spacer
4	Nasal Spray
5	Insulin pen
6	Suppository (Dulcolax)
7	PESSARY (Betadine / Clotrimazole)
8	ORS Sachet
9	IV fluids – 5% Dextose
10	NS
11	Ringer Lactate
12	Patch-Transdermal (Diclofenac)
13	Cream – Betnovate
14	Ointment-Soframycin
15	Calamine Lotion (Dermadew)
16	Dusting powder (Neosporin)
<b>INJECTABLES</b>	
1	Ampoules (Avil)
2	Vial Ampicillin
3	Drip Set
4	IV Cannula
5	Scalp vein set



  
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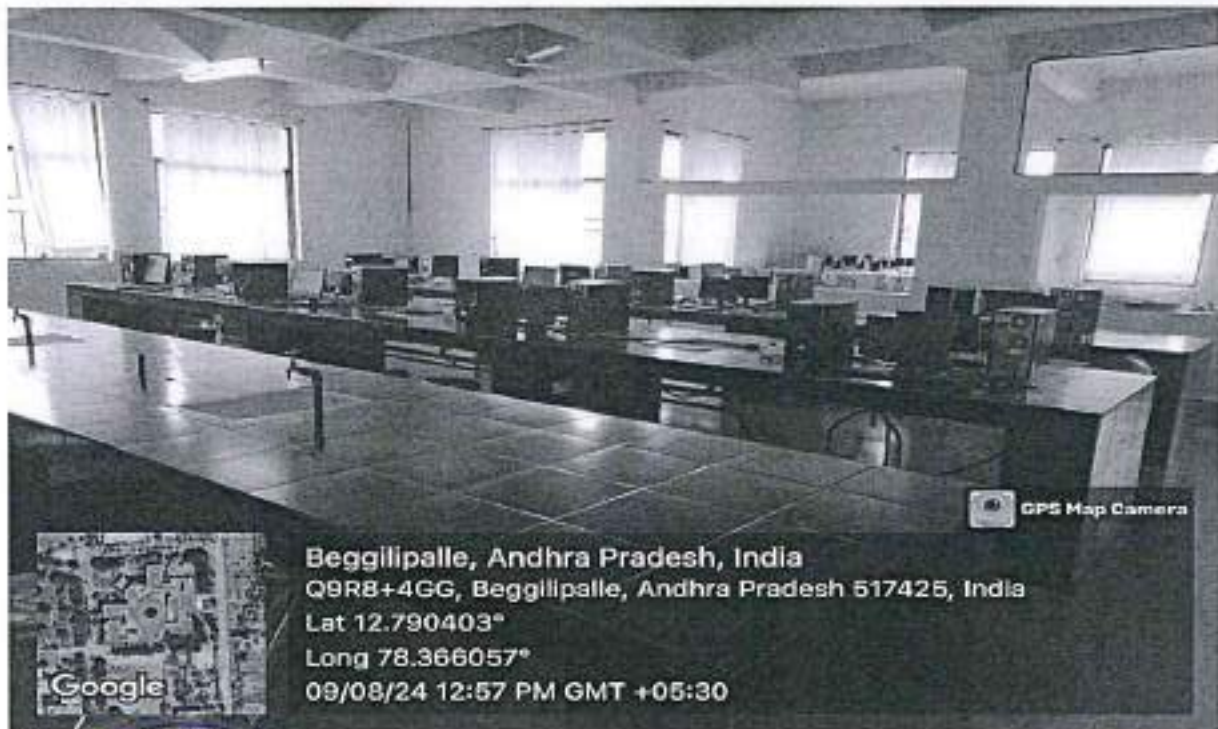
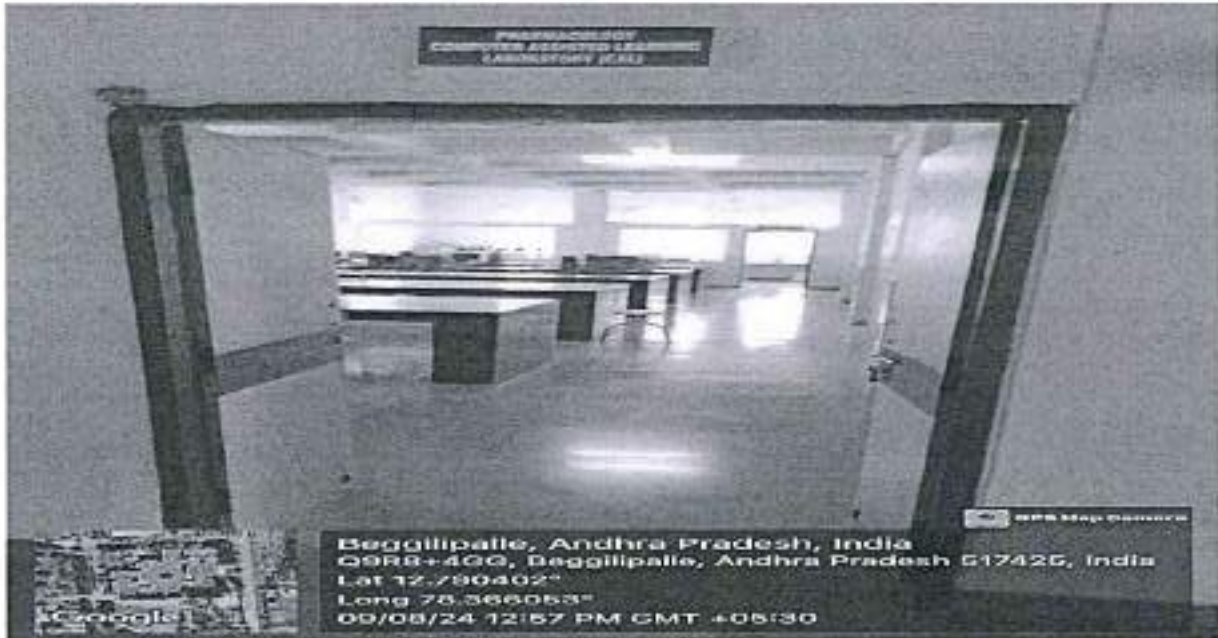
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**MICROBIOLOGY LABORATORY**

**PRACTICAL LABORATORIES:**

- a) Accommodation
- Size : 236 Sq.m.
  - Capacity : 90 Students
- b) Working arrangement
- Seats available : Revolving stools
  - Water supply : Provided
  - Sinks : Provided
  - Electric points : Provided
  - Cupboard for storage of microscopes : Available
- c) Main equipment available : Yes



  
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**LABORATORY**

Sl. No	DEVICES	NUMBERS
1	Incubators	3
2	BOD Incubator	2
3	Autoclave	4
4	Hot Air Oven	3
5	Laminar Air Flow	1
6	Distilled Water Plant	1
7	Inspisator	1
8	VDRL Rotator	2
9	Centrifuge	2
10	Water Bath	5
11	Microscopes	1
12	Dark Ground Microscope	1
13	Anaerobic Jar	1
14	Candle Jar	1
15	Refrigerator	2
16	Needle Destroyer	1
17	Micro-pipettes	3
18	Electronic Balance	2
19	Computer Printer	1
20	ELISA Reader Dispenser and Washer	1



  
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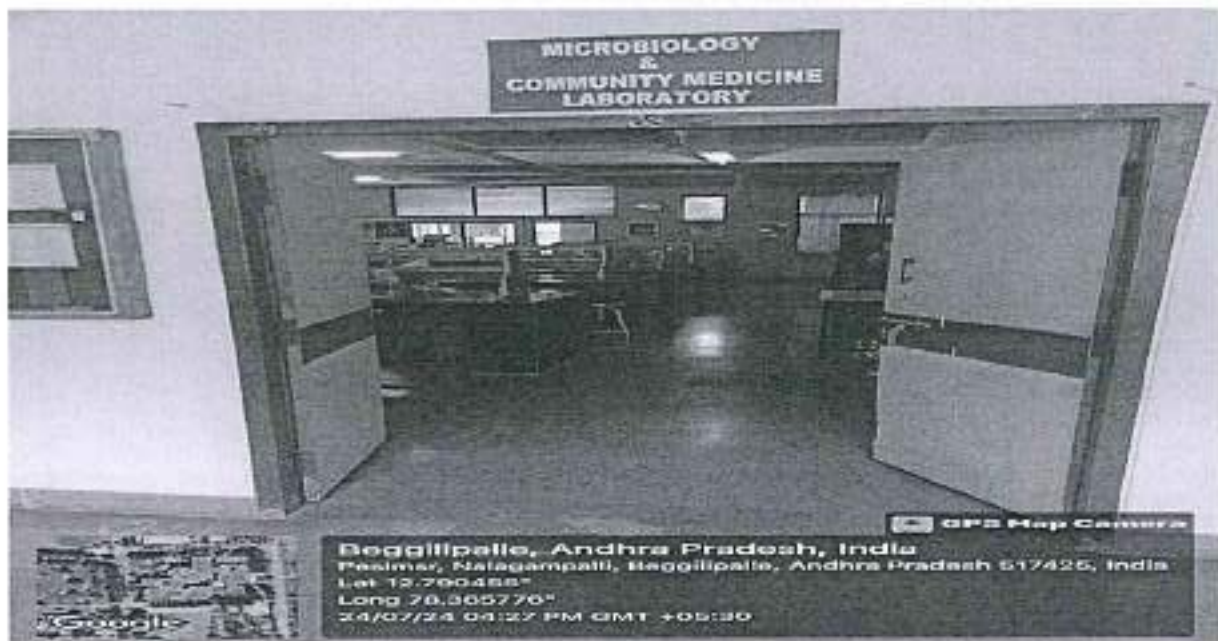
**LIST OF EQUIPMENTS IN PRACTICAL HALL**

Sl.No	DEVICES	NUMBERS
1	Student Microscope	80
2	Dissecting Microscope	1
3	Centrifuge	1
4	Micrometer	1
5	Dropper Bottles	300
6	Nichrome Wire	10
7	Stop Watch (Racer)	2
8	Bunsen Burner	80
9	Spirit Lamp	85
10	Centrifuge Tube	5
11	Glass Distillation Plant	2
12	Slide Boxes	20
13	Rack for Test tubes (Aluminium) a) ½" x 36 Holes : b) ½" x 48 Holes : c) ¾" x 12 Holes : d) ¾" x 09 Holes	8 2 2 2



  
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**KUPPAM-517 425, CHITTOOR DIST., ANDHRA PRADESH**



*Aravind*  
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**PATHOLOGY LABORATORY**

**PRACTICAL LABORATORIES:**

- a) Accommodation
- Size : 236 Sq.m.
  - Capacity : 90 Students
- b) Working arrangement
- Seats available : Revolving stools
  - Water supply : Provided
  - Sinks : Provided
  - Electric points : Provided



  
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**PRACTICAL LABORATORIES:**

Different sections in the department of Pathology:

Section	Area (M <sup>2</sup> )	Equipment available
(a) Histopathology	20 x 44 Sq.Ft 6.09 x 13.41sqm	Leica microtome Leica water bath Leica automated tissue processor Micom microtom Leica cryostat
(b) Cytology / Cytopathology	20 x 10 Sq.Ft 6.09 x 3.04sqm	Cytocentrifuge
(c) Hematology	48x48 sq ft 14.63x14.63sq.m	Horiba Pentra5 part auto analyser Beckman Coulter 3 partautoanalyser Hemostarcoagulometer Blood mixer Microscope Refrigerator Water bath Incubator
(d) Fluid section	10 x 10 Sq.Ft 3.04 x 3.04sq m	Centrifuge Refrigerator
(e) Autopsy	10 x 10 Sq.Ft 3.04 x 3.04sqm	Grossing table Dissection and grossing equipments like knives, scissors
(f) Others	10 x 10 Sq.Ft 3.04 x 3.04sqm	Abbot SDUrometer Urine analyser Centrifuge Refrigerator



  
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**DEPARTMENTAL GENERAL FACILITIES:**

Particulars	Morbid anatomy	Histopathology	Cytopathology	Hematology	Seminar room	Demo room	Any other lab.(Clinical Pathology)
Size (Area)	10X10Sq.Ft 3.04x3.04sqm	20X44 Sq.Ft 6.09x13.41sqm	20X10 Sq.Ft 6.09X3.04sqm	48x48 sq ft 14.63x14.63sqm	30 Sq.mt	73.75 Sq.mt	10X10 Sq.Ft 3.04x3.04sqm
Capacity					25 seating	50 seating	
Water Supply	Available	Available	Available	Available	-	-	Available
Sinks	Available	Available	Available	Available	-	-	Available
Electric points	Available	Available	Available	Available	Available	Available	Available
Cupboards <sup>†</sup>	Available	Available	Available	Available	Available	-	Available
Equipment List	Grossing station	Leica microtome Leica water bath Leica automated tissue processor Microm microtome EpreidialHistoStar Embedding station Thermoscientific -Cimarec Hot plate Leica cryostat Digital weighing scales	ThermoFisher Cytocentrifuge	Horiba ABX Pentra XL805 part auto analyser Horiba Pentra ES60 5 part auto analyser Hemostar Coagulometer Blood mixer Microscope Refrigerator Water bath Incubator	Computer with internet facilities	Computer with internet facilities Television system Audio system	Abbot SDUrometer Urine analyser Centrifuge



  
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**DETAILS OF THE LABORATORIES, ANIMAL HOUSE & HERBAL GARDEN**

**ANIMAL HOUSE**

Central Animal house of PESIMSR is registered with Committee for Control and Supervision of Experiments on Animals (CCSEA, formerly known as CPSEA) with the registration number – 767/PO/Re/S/03/CPSCEA). Animal house has 1 office room, 2 AC rooms for animals, 1 treatment room for animals, 1 rat holding room, 1 mouse holding room, 1 rabbit holding room ,2 rooms for guniea pig, 1 store room, 4 wash rooms and 1 frog pond. No animals are available in the animal house. As per NMC MSR 2020 Dated 28/10/2020 pg. No.11 Column No.A.2.6 Animal holding area is required only if research activity and PG training is under progress and it is not required for the UG curriculum. As per the NMC guidelines all the Animal Experiments are demonstrated using simulation software (Ex Pharma) during practical classes allotted for second MBBS students by using Computer assisted lab (CAL).

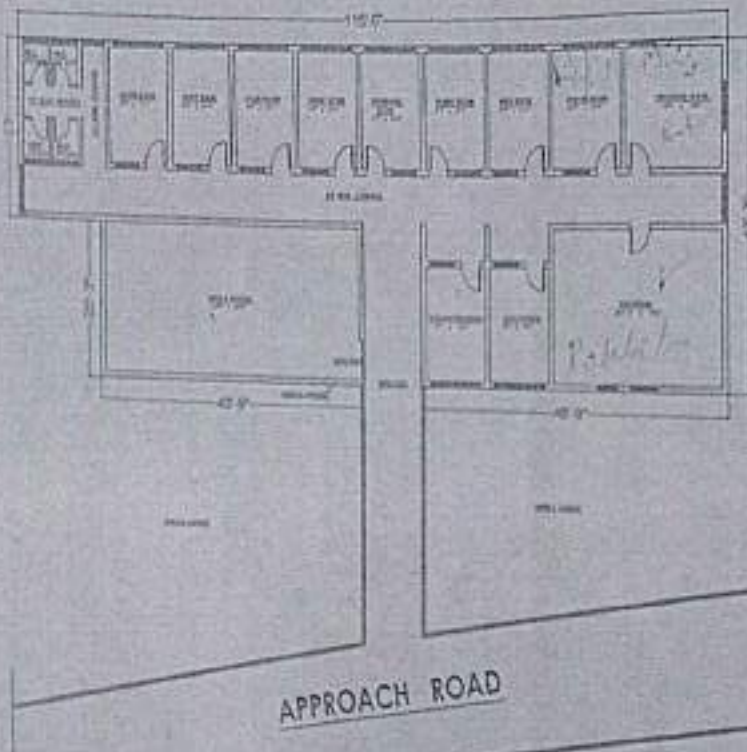
PESIMSR Kuppam is established Medical College since 2001-02 & having PG course since 2009 in MD Pharmacology. However, no PG students have joined MD Pharmacology since the last 8 years and no research activities going on Animals. In view of this as soon as student for MD Pharmacology join, we will renew the license for Animal house.



  
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PLAN SHOWING THE EXISTING ANIMAL HOUSE IN THE PREMISES  
OF PES INSTITUTE OF MEDICAL SCIENCES & RESEARCH, KUPPAM,  
GUDUPALI MANDAL, CHITTOOR DIST., A.P.



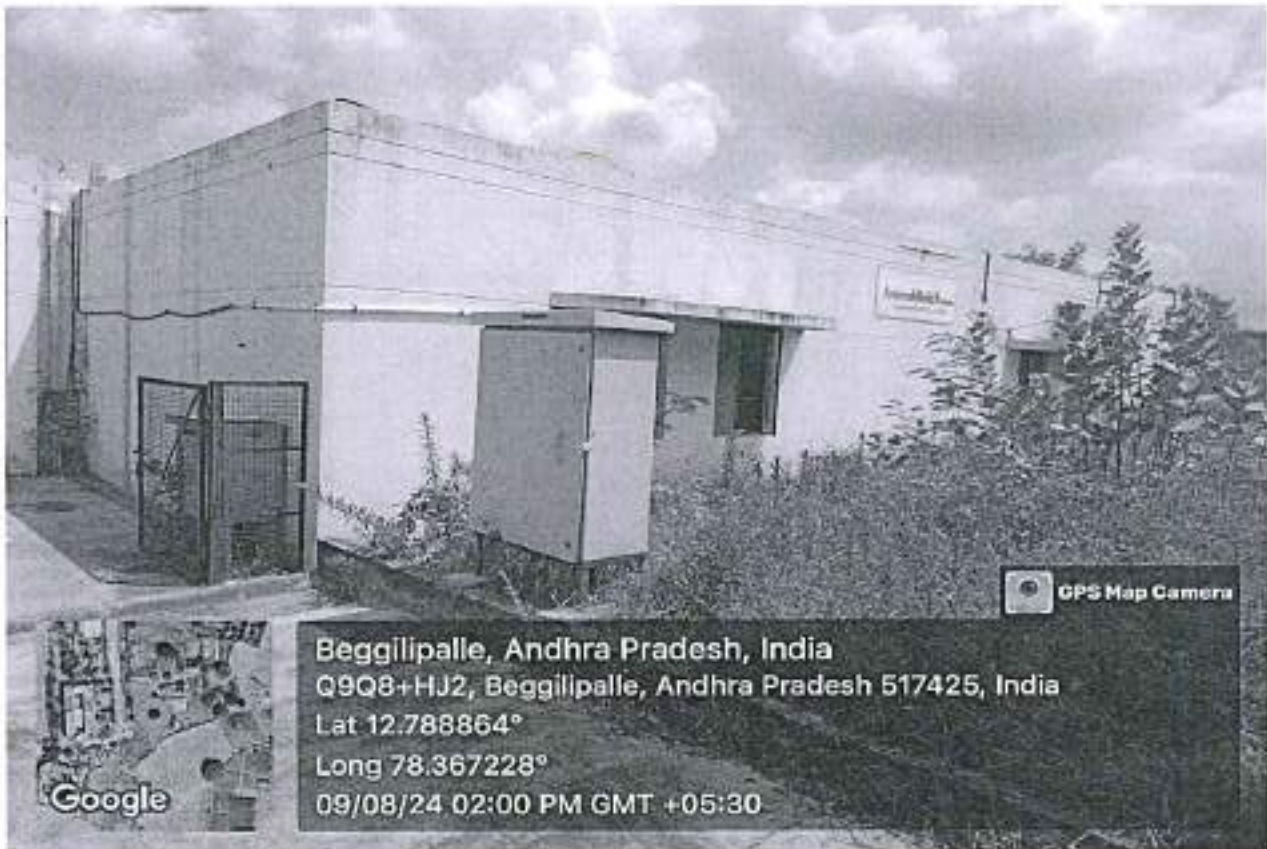
Requirement of  
Animal House  
1. Stable Room 12x12  
2. Milk Room 12x12  
3. Wash Room 12x12

GROUND FLOOR PLAN



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Government of India  
Ministry of Environment, Forest and Climate Change  
Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)  
6<sup>th</sup> Floor, Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

**CERTIFICATE**

*This is to certify that the registration of Animal House Facility of PES Institute of Medical Sciences and Research, Chittoor, Andhra Pradesh with CPCSEA has been renewed for Research for Education purpose on Small Animals bearing registration number 767/PO/Rc/S/03/CPCSEA.*

*The registration is valid for five years from 29/03/2019 to 28/03/2024.*

(Jerome Minz)  
Deputy Secretary (AW) & Member Secretary (CPCSEA)

JEROME MINZ  
Member Secretary (CPCSEA)  
Min. of Environment, Forest & Climate Change  
Government of India  
Jor Bagh Road, New Delhi



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**Department of Pharmacology**  
**ANIMAL HOUSE / ANIMAL EXPERIMENT**

**1) Is ANIMAL EXPT. DONE**

ANS: As per NMC guidelines 2020/ page 11/A.2.6.  
For teaching Pharmacology in UG curriculum the required knowledge & skills should be Imparted using computer Assisted Module

**2 How / which computer Assisted Module**

ANS : As per NMC guidelines Ex- Pharma Series Software - Computer Assisted Learning (CAL) Software has been purchased from \*Bureau for Health & Education Status Upliftment. & is valid.

All experiments for UG/PG using animals can be shown with this software

: Pharmacology Dept. has 25 operating systems as per NMC guidelines .

**3 ANIMAL HOLDING AREA:**

We have an Animal Holding Area and is registered with CPCSEA until 29 March 2023

Reg No: 767/PO/Re/S/03/CPCSEA

**4. Are there any ANIMALS in Animal house ?**

: No as all experiments are done using CAL Lab / Ex Pharma Software

Enclosed: 1 NMC documents  
2. Ex Pharma Software documents

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