

MINIMUM REQUIREMENTS

FOR

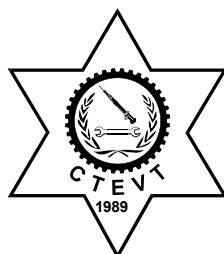
The Affiliation

Of

Proficiency Certificate Level in Health Science

(Ayurveda and General Medicine)

Programme



Council for Technical Education and Vocational Training

Polytechnic Division

Sanothimi, Bhaktapur

NEPAL 2023

प्राविधिक शिक्षा तथा व्यावसायिक तालीम परिषद् सानोठिमी भक्तपुरबाट सञ्चालन गरिने प्रमाणपत्र तह हेल्थ साइन्स (आयुर्वेद मेडिसिन) ३ वर्षे कार्यक्रमको सम्बन्धन स्वीकृति दिन आवश्यक भौतिक पुर्वाधार, मानव संसाधन र प्रयोगात्मक अभ्यासका लागि निर्धारण भएको न्यूनतम पुर्वाधार निर्देशिक (Minimum Requirements) तयारको क्रममा परिषद् कार्यालयको मिति २०७९।०६।५ गतेको निर्णयानुसार गठित कार्य टोलीको विवरण ।

कार्यटोली

१. देवेश चन्द्र देवकोटा	निर्देशक	संयोजक
२. डा. अभिषेक ताम्राकार	विषय विज्ञ	सदस्य
२. डा. गोपेन्द्र चन्द्र कमल	विषय विज्ञ	सदस्य
३. डा. विकास महर्जन	विषय विज्ञ	सदस्य
४. श्रीधर नेपाल	हेल्थ कोअर्डिनेटर. परिषद् कार्यालय	सदस्य

मिति २०७९/०८/१५

१. भवन तथा पुर्वाधारहरु

- १.१ भवन : काठमाडौं उपत्यका भित्र न्यूनतम ५ रोपनी तथा देशका अन्य स्थानको हकमा १० रोपनी जग्गामा बनेको भौतिक पुर्वाधार सहितको कक्षाकोठा, अफिस, ल्याव, भैषज्य उद्यान, प्रयोगशाला र पुस्तकालय लगायत सबै सुविधाका लागि सुरक्षित भवन हुनु पर्नेछ । बहूतले (धेरै तल्ला भएको) भवन भएमा थप कार्यक्रमको लागि जग्गा थप नभएपनि सञ्चालन गर्न सकिने छ ।
- १.२ कक्षा कोठा : प्रति विद्यार्थी ०.७५ वर्ग मिटरको दरले ३ वर्षे कार्यक्रमको लागि (प्रथम, द्वितीय र तृतीय वर्ष) ३ वटा कक्षा कोठा हुनु पर्नेछ । कक्षा कोठामा प्रशिक्षक र विद्यार्थीको लागि आवश्यक टेबल, डेक्स तथा कुर्चीको व्यवस्था हुनुपर्नेछ ।
- १.३ प्रयोगशाला/वर्कसप : सामान्य विज्ञानको लागि आवश्यक प्रयोगशालाहरु (Physics, Chemistry, Botany, Zoology, Computer) एउटा भन्दा बढी कार्यक्रम संचालन भएका संस्थाहरुमा सबै कार्यक्रमको लागि संयुक्त हुनेछ । संस्थाले पाठ्यक्रमले तोके अनुसार प्रयोगशालाहरुको प्रयोग गर्नु पर्नेछ र सम्पूर्ण विद्यार्थीहरुलाई प्रयोगात्मक अभ्यास गराउने सुनिश्चित समय तालीका हुनु पर्नेछ । Chemistry, Botany र Zoology, ल्यावमा आवश्यक Tap, Sink, Basin सहित Water Supply को व्यवस्था हुनु पर्नेछ ।
- १.४ विषयगत प्रयोगशाला : पाठ्यक्रमले तोके अनुसारको छुट्टा छुट्टै विषयगत प्रयोगशालाहरु हुनु पर्नेछ । प्रयोगशालाको क्षेत्रफल प्रति विद्यार्थी कम्तीमा २ वर्ग मिटर हुनुपर्नेछ ।
- १.५ लाइब्रेरी कक्ष : कार्यक्रमको लागि कम्तीमा ४० वर्ग मिटर क्षेत्रफलको पुस्तकालय कक्ष हुनु पर्नेछ । एउटा भन्दा बढी कार्यक्रम सञ्चालन हुने संस्थामा प्रत्येक थप कार्यक्रमको लागि १५ वर्ग मिटर क्षेत्रफल हुनु पर्नेछ । पुस्तकालयमा पाठ्यक्रममा उल्लेख भए बमोजिमका प्रत्येक विषयको लागि विद्यार्थी संख्याको कम्तीमा ५० प्रतिशत पाठ्यपुस्तक हुनु पर्नेछ । प्रत्येक विषयको कम्तीमा ४ वटा Reference Books र इमेल इन्टरनेटको सुविधा विद्यार्थीहरुको सहज पहुँच हुने गरी व्यवस्थापन गर्नु पर्नेछ ।
- १.६ प्रशिक्षक कक्ष : प्रशिक्षकहरुको लागि अध्ययन र प्रशिक्षण तयारीको लागि प्रति प्रशिक्षक कम्तीमा २.० वर्ग मिटर क्षेत्रफल सहित बस्ने व्यवस्था हुनुपर्नेछ ।
- १.७ प्राचार्य कक्ष : संस्थामा प्राचार्यको लागि छुट्टै कार्य कक्षको व्यवस्था हुनु पर्नेछ ।
- १.८ प्रशासन कक्ष : संस्थामा लेखा/प्रशासन कक्ष छुट्टै हुनुपर्नेछ ।
- १.९ सोधपूछ कक्ष : विद्यार्थी, अभिभावक र अन्य सरोकारवालाहरुलाई सेवा दिन संस्थाको छुट्टै सोधपूछ कक्ष हुनु पर्नेछ ।
- १.१० शौचालय : प्रशिक्षार्थीको लागि महिला र पुरुष छुट्टा छुट्टै हुने गरी १:२० का दरले र प्रशिक्षक, कर्मचारीका लागि १:१० का दरले शौचालयको व्यवस्था हुनु पर्नेछ ।
- १.११ खानेपानी : खानेपानीको लागि Water Filter /Euro Guard or Equivalent Water Purifier को व्यवस्था हुनु पर्नेछ वा शुद्ध पिउने पानीको व्यवस्था हुनु पर्नेछ ।
- १.१२ चमेना गृह : संस्थामा कम्तीमा २० जनाले एकै पटक प्रयोग गर्न सक्ने ठाउँ (Dining Room) भएको चमेनागृह हुनु पर्नेछ ।
- १.१३ खेलकूद सम्बन्धी : भलिबल, बास्केटबल, व्याडमिण्टन र टेबलटेनिस मध्ये कम्तीमा एउटा Outdoor वा Indoor कोर्टको व्यवस्था हुनु पर्नेछ ।

२. प्रयोगशाला तथा Demonstration कक्ष : संस्थामा तपशिल बमोजिमका प्रयोगशाला तथा डेमो कक्ष हुनुपर्नेछ।

क) Physics Lab

ख) Chemistry Lab

ग) Biology Lab: संस्थाले एक भन्दा बढी कार्यक्रम संचालन गर्ने भएमा Zoology / Botany Lab छुट्टाछुट्टै हुनुपर्नेछ ।

घ) Anatomy & Physiology / Maulika Siddhanta and Shareera Demonstration Room

ङ) Dravyaguna Lab. / Pharmacognosy Room

च) Rasashastra and Bhaisajya Kalpana Lab. / Pharmaceutical Room

छ) Vikriti Vijnana Lab. / Biochemistry and Pathology Lab.

ज) Epidemiology, CHD & PHC & First Aid Lab.

झ) Swasthavritta Lab.

३. प्रयोगात्मक अभ्यासको लागि आवश्यक पूर्वाधार र सुविधा सम्बन्धी:

३.१ पाठ्यक्रमले निर्दिष्ट गरे बमोजिम अस्पतालमा गर्नुपर्ने अभ्यासको लागि १५ शैषायुक्त सञ्चालनमा रहेको आयुर्वेद अस्पतालसंग सम्झौता भएको र अन्य अभ्यास (सामान्य चिकित्सा) का लागि सम्बन्धित अस्पतालहरूसंग सम्झौता भएको हुनुपर्नेछ ।

३.२ आयुर्वेद अस्पतालमा Indoor and outdoor सेवा संचालन भएको हुनुपर्नेछ ।

३.३ कार्यक्रम संचालन गर्ने संस्था र अस्पताल बीच दुवै पक्षको संलग्नतामा प्रशिक्षार्थीहरुलाई प्रयोगात्मक अभ्यासका लागि कम्तिमा ५ (पाच) शैक्षिक सत्रको लागि सम्झौता हुनुपर्नेछ ।

४ प्राचार्य र प्रशिक्षक सम्बन्धि व्यवस्था : संस्थामा प्राचार्य/उपप्राचार्य/विभागीय प्रमुखहरु पूर्णकालिन (fulltime) हुनुपर्नेछ । प्राचार्यको शैक्षिक योग्यता MD -Ayurveda वा BAMS पछि ५ वर्षको कार्यानुभव र नेपाल आयुर्वेद चिकित्सा परिषदमा दर्ता भएको हुनुपर्नेछ ।

५ विभागीय प्रमुखको शैक्षिक योग्यता MD Ayurveda वा BAMS पछि ३ वर्षको कार्यानुभव र नेपाल आयुर्वेद चिकित्सा परिषदमा दर्ता भएको हुनुपर्नेछ ।

६ लेक्चरर/प्रशिक्षकहरुको योग्यता : प्रथम वर्ष संकाय तर्फको लेक्चरर/प्रशिक्षकहरुको न्यूनतम शैक्षिक योग्यता सम्बन्धित विषयमा स्नातकोत्तर हुनुपर्नेछ ।

प्राविधिक विषयका प्रशिक्षकहरु तपसीलको योग्यता भई कम्तिमा ४ जना पूर्णकालिन र सम्बन्धित परिषदमा दर्ता भएको हुनुपर्नेछ ।

तपसील

- MD -Ayurveda) वा BAMS पछि २ वर्षको कार्यानुभव ।

स्पष्टिकरण : पूर्णकालिन प्रशिक्षक भन्नाले संस्थामा अध्ययन अध्यापन हुने समयमा अन्य संस्थामा अध्यापन कार्यमा संलग्न नभएको र संस्थाको अध्ययन अध्यापन लगायतका कार्यहरुमा मात्र संलग्न भएको सम्झनुपर्छ ।

७. अध्ययन अध्यापनका लागि आवश्यक औजार उपकरण तथा आवश्यक शैक्षिक सामाग्रीहरु

७.१ Physics Lab

S. N.	Item	Quantity
1.	Chair and table for teacher	1 set
2.	Marker board	1 set
3.	Working tables	Sufficient to perform practicum for at least 10 students
4.	Rack for Instrument	As per need
5.	Vernier caliper	10 pcs
6.	Hollo & solid cylinders each	10 pcs
7.	Screw gauge & steel ball each	10 pcs
8.	Glass rods	As per need
9.	Plane mirror	10 pcs
10.	Concave Lens	10 pcs
11.	Convex Lens	10 pcs
12.	Concave Mirror	10 pcs
13.	Convex Mirror	10 pcs
14.	Thermometer (laboratory)	10 pcs
15.	Bar magnet	10 pcs
16.	Magnetic needle	10 pcs
17.	Meter bridge	10 pcs
18.	Rheostat	10 pcs
19.	Nicholson's hydrometer	10 pcs
20.	Hypsometer	10 pcs
21.	Volt meter	10 pcs
22.	Hydrostatic balance	10 pcs
23.	Ammeter	5 pcs
24.	Resistance box	10 pcs
25.	Optical bench	10 pcs
26.	Drawing board (Small)	10 pcs
27.	Slotted weight	10 pcs
28.	Specific gravity bottle	10 pcs
29.	Simple pendulum	10 pcs
30.	Prism	5 pcs
31.	Calorie meter	10 pcs
32.	Sphero meter	5 pcs
33.	Wall Stand Barometer	5pcs
34.	Operational Manual of equipment	1 pc

9.2 Chemistry Lab

S. N.	Item	Quantity
1.	Chair and table for teacher	1 set
2.	Marker board	1 set
3.	Working tables	Sufficient for 10 Students
4.	Rack for Glass Wares and chemicals	As per need
5.	Mendeleev Periodic Table (Wall chart size)	1 pcs
6.	Bunsen burner	10 pcs
7.	Tripod stand	10 pcs
8.	Gas valve	10 pcs
9.	Stand & clamp	10 pcs
10.	Sprit lamp	10 pcs
11.	Filtration stands	10 pcs
12.	Chemical weight box	10 pcs
13.	Glass tube & glass rods	As per need
14.	Round bottom flasks of different volumes	10 pcs each
15.	Eudiometric tubes	10 pcs
16.	Plastic washing bottles	10 pcs
17.	Distillation set	1 set
18.	Beaker (50, 100 ml) each	10 pcs
19.	Measuring Cylinder (100, 500 ,1000 ml) each	5 pcs
20.	Volumetric Flask of different volumes (100,200 ml)	10 pcs each
21.	Hard glass test tube	10 pcs
22.	A grade pipettes of different volumes (1 , 5. 10, 20, & 50 ml)	20 pcs
23.	Water trough	10 pcs
24.	Fire Extinguisher	1 pc
25.	Consumable chemicals and materials- Silver nitrate, Glacial acetic acid, Iodine crystals, Salicylic acid, Mercuric chloride, Calcium chloride (fused), Potassium dichromate, Oxalic acid, ammonia solution (liquid Ammonia), Feting solution A & B phenolphthalein, Methyl orange powder, Potassium oxide, Starch soluble, Barium chloride, Copper sulphate, Sodium chloride, Sodium hydroxide (pellets), Sodium bromide, Sodium sulphite, Sodium sulphate, Ammonium chloride, Barium carbonate, Urea, Thiourea, Chlorobenzene, Chloroform, Ethanol, acetone, Sodium oxalate, Ferrous sulphate, Ferric chloride, Sodium nitroprusside, Camphor, Zinc granulated, Methanol, Potassium hydrogen sulphate, Chlorine water, Calcium oxide, Carbon disulfide, Lead acetate, Fusion tube, Sodium acetate, trihydrate Sodium formate, Potassium permanganate, Sulphuric acid, Hydrochloric acid, nitric acid, Distilled Water, Filter Paper Dropper.	
26.	Exhaust fan and Chemical storage facility (Flammable, Inflammable, Toxic and Hazardous	
27.	Emergency preparedness manual	
28.	Laboratory waste management system	
29.	First aid box	
30.	Reagent bottle	
31.	Gloves (as required)	
32.	Masks (as required)	
33.	Reagent bottles (as required)	

୭.୩ Biology Lab

୭.୩.୧ Zoology Lab

S.N	Item	Quantity
1.	Chair and table for teacher	1 set
2.	Marker board (6*4)	1 set
3.	Working tables	Sufficient to perform practicum for at least 10 students
4.	Rack for Specimen and ware	As per need
5.	Light microscope with different objectives	5 pcs
6.	Dissecting set	10 sets
7.	Dissecting Tray	10 pcs
8.	Slide & cover slip	As per need
9.	Glycerin	As per need
10.	Plastic washing bottles	5 pcs
11.	Museum specimens of at least one each from the following group- a. Protozoa – Rhizopoda, E. histolytica, Mastizophora Euglena, Giardia, Leishmania, Ciliata & Paramecium, b. Porifera- sycon, c. Coelenterata- hydra d. Platyhelminthes:- cestodes- T. saginata, T. solium, E. granulosus e. Nemathelminthes- A. lumbricoides, T. trichura, E. vermicularis, A. duodenale, W. bancrofti f. Annelida- Earthworm, Leach g. Arthropoda- crustacea- Prawn, Crab, h. Insecta- Anopheles Culex, Aedes & mosquito i. Archnida- Scorpion, Spider j. Including life- cycle of Pediculus, Cimex k. Mollusca- Unio & Pila l. Echinodermata- starfish m. Pisces- scoliodon, labeorohite n. Amphibia- frog, toad, hyla o. Reptilia- wall lizard, netrix, naja (Kobra), bungarus, (Krait) viper, tortoise p. Aves- crow & pigeon q. Mammalia- Bat	

୭.୩.୨ Botany Lab

S.N	Item	Quantity
1.	Chair and table for teacher	1 set
2.	Marker board	1 set
3.	Working tables	Sufficient to perform practicum for at least 10 students
4.	Rack for specimen and ware	As per need
5.	Light microscope with different objectives	5 pcs
6.	Slide & cover slip	As per need
7.	Permanent slides of different stage of mitosis & meiosis cell division	5 pcs
8.	Gram staining kit	2 kit
9.	Safranin	1 bottle
10.	Glycerin	1 bottle
11.	Permanent slide of spirogyra & nostoc, bacteria, Nucleic acid	2 pcs
12.	Collection of different medicinal plants as prescribed by curriculum	2 pcs
13.	Bell jar	5 pcs
14.	Permanent slide of bacteria	2 pcs
15.	Chart of mucor, yeast, spirogyra, nostoc	1 each
16.	Dropper	10 pcs
17.	Permanent slides & museum specimen of mucor, yeast, penicillium, aspergillus & claviceps	
18.	Cobalt chloride	

୭.୩.୩ Anatomy & Physiology / Maulika Siddhanta & Shareera Demonstration Room

S.N	Item	Quantity
1	Marker board	1 Set
2	Demonstration table	Sufficient to perform practicum for at least 10 students
3	Rack for dummy / model	As per need
4	Adult size full body human skeleton	1 pc
5	Muscular model & charts	1 pc
6	Reproductive system model & charts	1 pc
7	Female pelvic model & charts	1 pc
8	Standard size model of different body organ (eye, ear, throat, heart, kidney, liver, lungs, joint with ligaments, brain, skin, uterus,)	1 set each
9	Bone pieces of different parts	1 set each
10	Foetal growth chart	1 set

11	System wise Human body anatomical charts	1 set each
12	Model of infant & adult (female)	1 pc each
13	Adult human model (with head, chest, abdomen and pelvic)	1 pc
14	Model of fetal development as per fundal height	1 Set
15	Aneroid Sphygmomanometers	5 pcs

9.3.8 Dravyaguna/ Pharmacognosy Lab:

S.N.	Item	Quantity
1.	Marker board /Smart Board	1 set
2.	Demonstration table	Sufficient to perform practicum for at least 10 students
3.	Herbarium press	10 set
4.	Light microscope	5
5.	Dissecting microscope	5
6.	Bunsen burner	10
7.	Spirit lamp	10
8.	Digital balance	2
9.	Calorimeter	2
10.	Heating mantle (Small and big)	2 each
11.	Autoclave	1
12.	Hot air oven	1
13.	Electric water bath	1
14.	Centrifuge	2
15.	Permanent slides of transverse section of medicinal plants- senna, datura, cinnamon, cinchona, coriander, fennel, clove, ginger, nux-vomica, ipecacuanha, mentha, lemongrass, nutmeg, chenopodium, turmeric, eucalyptus, dill, caraway, cardamom and fennel.	2 each
16.	Glass slides as required	
17.	Museum specimen and herbarium of common medicinal plants	As required

୭.୩.୫ Rasashastra, Bhaishajyakalpana, Toxicology and Pharma Technology/hospital and clinical pharmacy Lab

S. N.	Item	Quantity
1)	Museum Specimen & Samples of a. Rasa b. Dhatu c. Upadhatu d. Maharasa e. Uparasa f. Ratna, Uparatna g. Visha, Upavisha h. Lavana i. Kshara j. Marine and animal origin products	As Required
2)	Mortar and pestle (small and big)	2 pcs each
3)	Metal Khalva yantra	2 ps
4)	Beaker (50, 100, 150, 200, 500, 1000ml) each	5 pcs
5)	Heating apparatus - Gas stove - Induction cook top - Heating mantle - Hot air oven - Electric muffle furnace - Spirit lamp - Crucible - Hot water bath - Autoclave	- 2 sets - 1 - 1 - 1 - 1 - 2 - 1 - 1 - 1
6)	Mixer and Grinder	2 set
7)	Porcelain jars	3 pcs
8)	Refrigerator	1pcs
9)	Pyrometer	1pc
10)	pH meter	1 pc
11)	Single punch tablet compression machine	1
12)	Tablet Hardness testers	As required
13)	Different sized sieves (12,16,20,30,40,60,80,100)	As required
14)	Measuring cylinders (200,500,1000ml)	5 each
15)	Steel trays	As required
16)	Digital balance - for low weight (upto 200gm)	- 1

	- for high weight (upto 10kg)	- 1
17)	Yantra – Dolayantra, Patanayantra, Balukayantra, Damaruyantra	1 each
18)	Others - Frying pan - Spatula of different sizes - Knife - Fire tongs - Earthen pots and vessels	- 2 - 3 each - 3 - 2 - As required
19)	Additional - Pulveriser - Percolator - Cow ghee - Sesame oil - Honey - Eranda taila	As required

୭.୩.୬ Vikriti Vijnana /Biochemistry and Pathology Lab

S. N.	Item	Quantity
1.	Refrigerator	1
2.	Incubator	1
3.	Oven	1
4.	Air conditioners	As required
5.	Petri dishes	As required
6.	Microscopes (binocular)	5 sets
7.	Microscopes (monocular)	5 sets
8.	Autoclave	1
9.	Electric centrifuge machine	2
10.	Water baths	3
11.	Test tubes	Sufficient quantities
12.	Inoculation devices with loop	3 set
13.	Bacterial cultures (sterile)	As required
14.	Capillary pipette (different sizes & volumes)	Sufficient quantity
15.	Bunsen burner	Sufficient quantities
16.	Anti-septic solutions	Sufficient quantities
17.	Protective clothing	Sufficient for 10 students
18.	Gloves and masks	Sufficient quantities
19.	Non-absorbent cotton/ cotton wool	Sufficient quantities
20.	Different Mediums (Beef, Yeast extract, Agar)	As required

21.	Benedict's Solution	As required
22.	ESR tube & ESR stand	2
23.	Protein reagent strip	As required
24.	Acetic Acid	As required
25.	Robert's reagent	As required
26.	Hemometer	2
27.	Sahli's pipette	2
28.	Standard Comparator	2
29.	Wright's Stain	As required
30.	Gentian Violet	As required
31.	Giemsa Stain	As required
32.	Leishman's Stain	As required
33.	Acetone	As required
34.	Distilled Water	As required
35.	Buffer Solution	As required
36.	Lancet	As required
37.	Syringe	As required
38.	Ammonium Sulphate	As required
39.	Sodium Nitroprusside	As required
40.	Iodine stain	As required
41.	Saffranin stain	As required
42.	Methanol	As required

୭.୩.୭ Epidemiology, CHD & PHC & First Aid Lab.

S. N.	Item	Quantity
1.	Syringes of Various size (1ml, 3ml, 5ml, 10ml, 50ml)	20 each
2.	Suture and suturing needles	20
3.	Bandages	As required
4.	Splints of different body parts	2 each
5.	Dummies for CPR with calibrator	2
6.	Sphygmomanometer	10
7.	Thermometer	10
8.	Torch	10
9.	Oximeter	10
10.	Measuring Tape	10

୭.୩.୫ Swasthavritta Lab.

Yoga Hall : 25*30 ft.

Field Visit : 1. Drinking Water Processing Plant
 2. Dairy Corporation
 3. Waste Management Site
 4. Industrial Area
 5. Slaughter House

S. N.	Item	Quantity
1.	Yoga Mat (68'' * 24'')	20
2.	Charts	As Required
3.	Neti pot	10
4.	Sutra	10
5.	Audio Visual Projection	1
6.	Changing Room	2

8) Equipment, instruments, chemicals and teaching aids for general pharmaceutical techniques and clinical practices

- Stethoscopes
- Sphygmomanometers
- Thermometers
- Tongue depressors
- Syringes and needles (disposables)
- Cotton
- IV sets
- IV cannulas of various size
- Gloves
- Scalpel and blades
- Knife holder
- Torches
- Gauzes
- Crepe bandages
- Antiseptic solution as required
- Plain scissors
- IV stand
- Hot water bags
- Dissecting scissors
- Other relevant equipments

There shall be a provision of the following chemicals/consumables for the laboratory/ practical work for II and III years

- Syringes 5 ml and 10 ml
- Cotton rolls
- Glass tubes (large sizes)
- Glass tubes (small size)
- Filter paper
- Glass pipette (10ml)
- Glass pipette (5ml)
- Glass pipette (1ml)
- Cover slips
- Glass centrifuge tubes
- Microscopic glass slides
- Electric heaters
- Staining racks
- HCl
- H₂SO₄
- NaCl (LR and AR)
- Rectified spirit
- Crystal violet solution
- Lugol's iodine solution
- Acetone
- Carbol fuchsin solution
- Ethylene blue solution
- Wright stain solution
- Giemsa stain
- Distilled water
- WB diluting fluid
- Plastic droppers
- pH papers
- Plastic washing bottles
- Methanol
- Measuring cylinder 1000 ml
- Measuring cylinder 100 ml
- Measuring cylinder 10 ml
- Microscopic oil
- Glycerine
- Beaker 500 ml
- Beaker 200 ml
- Beaker 100 ml
- Urea Reagent kits
- EDTA
- Copper Sulphate

- Potassium iodide
- Starch powder
- Sodium Thio sulphate
- Methyl red
- Sodium Hydroxide
- Sodium bicarbonate
- LPG
- Chemicals for the formulation of
 - Suspension
 - Emulsions
 - Dusting Powder
 - Whitefield ointment
 - Antiseptic solution
 - Elixir
