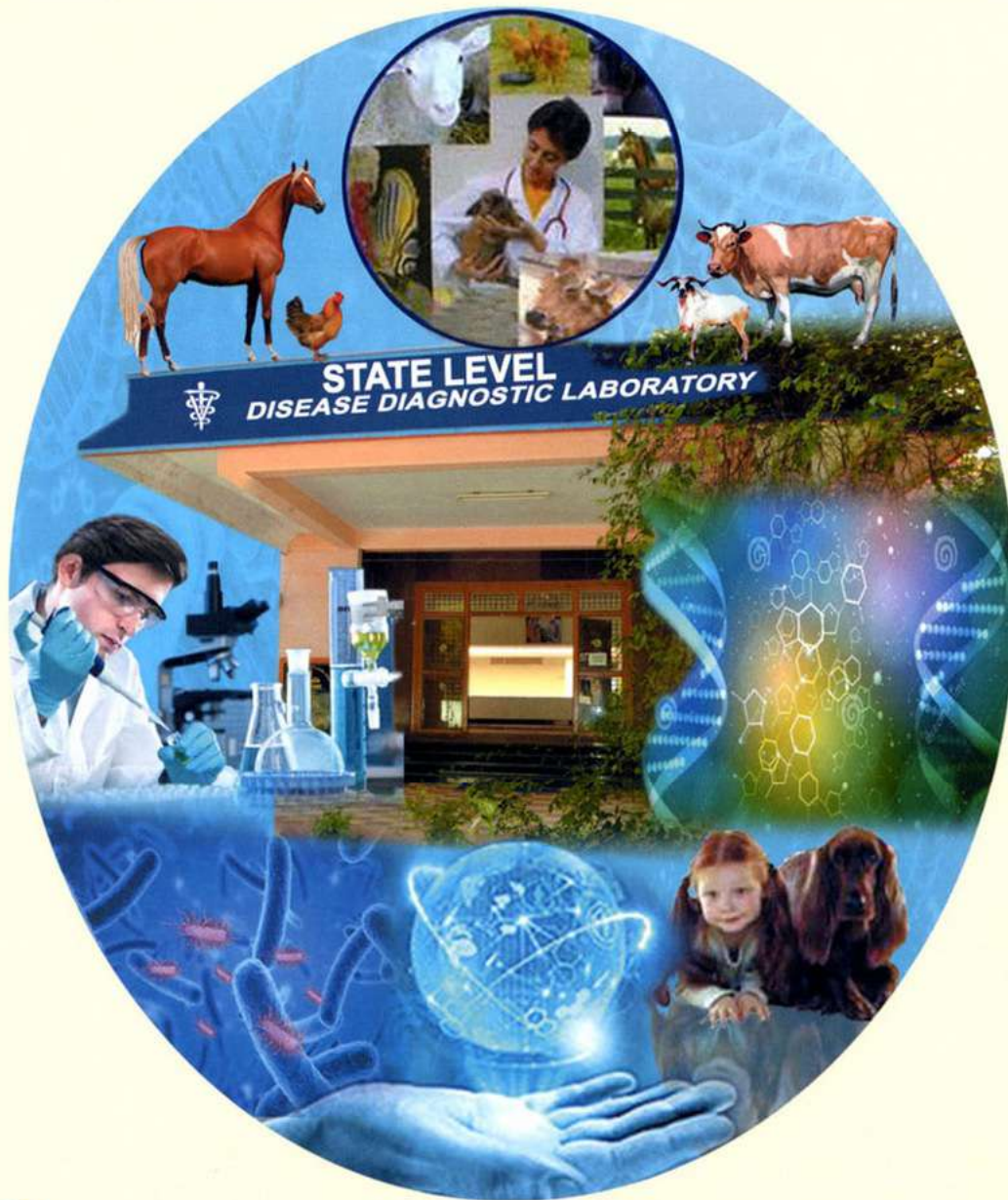


STATE LEVEL DIAGNOSTIC LABORATORY, TIRUPATI
House of precision Diagnostics for
Animal and Human Health



SRI VENKATESWARA VETERINARY UNIVERSITY

Tirupati - 517502, Andhra Pradesh

March, 2021

STATE LEVEL DIAGNOSTIC LABORATORY, TIRUPATI

State level animal disease diagnostic laboratory was established under RKVY project during the year 2009 at College of Veterinary Science, Sri Venkateswara Veterinary University, Tirupati for diagnosis of various animal diseases and diseases of zoonotic importance with the primary objective of improving animal health & production and further extending the facility to human health.

OBJECTIVES

- To provide diagnostic services for early & accurate diagnosis of Animal & Poultry diseases.
- To cater the needs of the farmers for improving the livestock and human health.
- To attend the disease outbreaks, diagnose the diseases and to suggest control measures.

Infrastructure facilities

BACTERIOLOGY

Culture and sensitivity of clinical samples, Characterization of isolates, Mastitis milk samples, Uterine discharges and Skin scrapings for Culturing & ABST, Blood smear examination, Clinical samples & Tissue samples for isolation of the bacteria, Analysis of feed samples and food products for Total microbial load, E Coli & Yeast Count, Analysis of soil & water for Total microbial load.

LEPTOSPIRA DIAGNOSIS (BSL-II FACILITY)

Unique facility for the diagnosis of leptospira in the state, Maintenance of live leptospiral panel of serovars (10), Dark field microscopic facility for the diagnosis of leptospira from blood, urine and CSF, Microscopic agglutination test (MAT), a gold standard diagnostic test for the diagnosis of Leptospira from animals as well as humans.

PATHOLOGY

Analysis of haematological Parameters i.e Hb, TLC, DLC, PCV, Platelet count, Histopathological examinations, Cytological Examinations, Immuno histo chemical studies and Immuno histo chemical studies for tumor markers (Ki67, Bcl2 & VEGF).

PARASITOLOGY

Faecal & Skin scrapings for Parasitological examinations, Blood smear examinations for haemoprotozoans

BIO-CHEMICAL ANALYSIS

Serum profile :- Total protein, Glucose, Total Bilirubin, Urea, Nitrogen, Albumin, Cholesterol, Creatinine, ALP, ALT&AST. Macro minerals (calcium, sodium, phosphorous and potassium), Micro minerals (copper, iron and zinc)

Urine profile :- pH, Specific gravity, Total Protein, Glucose, Cholesterol, Urea and Albumin

ELISA FACILITY

Hormones, Estrogen & Progesterone assays, C-Reactive protein and Cortisol estimation

MOLECULAR DIAGNOSTIC LABORATORY:

PCR and Real-time PCR diagnostic facility:- Molecular diagnosis of bacterial diseases:- Anthrax, Enterotoxaemia, Brucellosis, Salmonellosis, Foot rot, Tuberculosis and Para tuberculosis.

Molecular diagnosis of Animal Viral diseases:- Bluetongue, PPR, MCF, LSD, Sheep pox and Goat pox, Canine parvo virus and IBR etc.

Technical expertise:

Qualified and highly skilled faculty with vast experience along with good technical supportive staff are working in the laboratory. It also offers practical & hands on training on molecular diagnostic techniques.

DIAGNOSTIC/RESEARCH FACILITIES AVAILABLE AT SLDL, SVVU, TIRUPATI



BSL-III & II FACILITY (To deal with Brucella, Anthrax, Rabies, Leptospira & etc.)



Fully automated Microtome



Cryostat



Multimode Reader

Histopathological studies and Immuno histochemistry



Automatic colony counter



2-D Gel electrophoresis

Fully automated Bio-chemical analyzer, Gel Doc and ELISA facilities are also available



PCR

Diagnosis of viral, bacterial, fungal and other organisms from various biological samples.



Real time PCR

Quantification of DNA/RNA and gene expression studies



Ultra centrifuge

Separation, purification of bacteria, virus, fungus, proteins, protein complexes, lipoproteins, RNA, and plasmid DNA



Dark field microscope

Visualization of live bacterial cultures, Spirochaetes, Leptospira etc.,



HYPER IMMUNIZATION FACILITY

Raising of Hyper Immune sera in lab Animals.



LAB

Address for Correspondence

Professor and Head,

State Level Diagnostic Laboratory,

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02/01/21



SRI VENKATESWARA VETERINARY UNIVERSITY
ADMINISTRATIVE OFFICE: Dr. Y.S.R. BHAVAN: TIRUPATI - 517 502

Memo.No.4988-2/Res/A2/2020

Dated.29.12.2020

Sub:- SVVU – State Level Diagnostic Laboratory, Tirupati – Revised user charges for different services provided at Diagnostic Laboratory – Screening of samples against various diseases – Approved – Orders - Issued.

Ref:- 1. Univ.Proc.No.4014/Res/SLDL/13, dt: 12.09.2014 of DR,SVVU
 2. Lr.No.nill/SLDL/SVVU/TPT/2020-21.dt: 07.12.2020 from the Prof & Head, State Level Diagnostic Laboratory, SVVU, Tirupati.

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Under the circumstances explained by the Prof & Head, State Level Diagnostic Laboratory, SVVU, Tirupati, vide reference 2nd cited, permission is hereby accorded to collect the revised user charges commonly for the samples presented by animal husbandry Departments / Other departments of SVVU / farmers/ outside universities / agencies Pvt.farms etc.. of SLDL, SVU, Tirupati as detailed below.

S.No	Type of service provided	Common user Charges for samples presented by animal husbandry Departments / Other departments of SVVU / farmers/ outside universities / agencies Pvt.farms etc..
S.No.	Type of service provided	
I	Microbiology Section	
	a) Culture & sensitivity testing of clinical samples (Milk, Urine, uterine discharges, blood and others)	400
	b) Characterization of isolates	800
	c) California mastitis test/sample	50
	d) Screening/disease diagnosis by ELISA test (except investigations during disease outbreaks)	250
	e) Disease diagnosis by PCR test (except investigations during disease outbreaks)	650
	f) Total plate count (Water analysis)	650
	i) Total microbial load	650
	ii) Serological test (RBPT)	100
	iii) Serological test (STAT)	250
	g) Bull semen for IBR by PCR tech (Real time PCR) /Sample	1000
	h) sputum/faecal examination for TB/JD	200
	i) Leptospira -Dark Field Microscopy	150
	j) Leptospira -Serological test (MAT)	450
II	Pathology section	
	k) HB;TLC, DLC, ESR, TEC, PCV, Platelet count by routine method / test	50/test

	l) CBC	200
	m) Platelet count (Research method)/sample	200
	n) Routine urine examination/sample	50
	o) Biopsy & Histopathological examination	350
	p) Cytological smears	200
	q) Immuno histo chemistry for tumours (Ki67,BcI2,VEGF)	700
III	Parasitology Section	
	l) Faecal & skin scraping for parasitological examination/sample	50-120 Direct smear - 50/- Fecal sed tech - 100/- Fecal flotation - 120/-
	ii) Blood parasitological examination/sample	100
	iii) Disease diagnosis by PCR test (Except investigations during disease outbreaks)	500
IV	Biochemistry Section.	
	1.Total Protein	60
	2.Glucose	60
	3.Total Bilirubin	80
	4.Urea Nitrogen	80
	5.Cholestrol	100
	6.Creatinine	80
	7.SGOT,SGTP(ALT)ALP	80
	8.LDH	100
	9. Macrominerals & Electrolytes (Ca,P,Na,K & Cl).	80
	10. Micro minerals (Zinc & copper)	100
	11. Albumin	60

P.ESWARA PRASAD
DIRECTOR OF RESEARCH

To

The Prof & Head , State Level Diagnostic Laboratory, SVVU, Tirupati.
Copy to the Assistant Comptroller, RAO (Rayalaseema Zone) College of
Veterinary Science campus, Tirupati.

Copy to PA to Director of Research, Admn.Office, SVVU, Tirupati
Copy to sf/sc

//F.B.O//

SICRUM 15 29/12/20
Assistant Registrar (NTE) / 20

29/12