RESEARCH FACILITIES IN FATIMA COLLEGE

S. No.	RESEARCH FACILITIES
1.	Dissection Monitoring Committee
2.	Instruments to Facilitate Research
3.	Instrumentation Centre
4.	Wi-Fi Points
5.	Infrastructure for Research
6.	Plagiarism Checking Software
7.	Research Advisory Committee/Student Resource Forum
8.	Sponsored Projects
9.	Nutrical Software

DISSECTION MONITORING COMMITTEE TO MINIMIZE USE OF ANIMALS IN DISSECTION

DEPARTMENT OF ZOOLOGY

As per the Guidelines of University Grants Commission (UGC) for the discontinuation of dissection and animal experimentation in Zoology, the Dissection Monitoring Committee (DMC) was constituted in the Department of Zoology, Fatima College in the year 2013. The Members of DMC are :- Head, Department of Zoology (Convener & Chairperson), Two Senior Faculty members from Department of Zoology, One Faculty from related Science Department and One Faculty from the Department of Zoology of neighbouring Institutions. The tenure of DMC is two years. Dissection Monitoring Committee (DMC) Meeting is conducted annually to scrutinize and approve the syllabi of the Practical Courses. The committee monitors the minimized use of animals in dissections and Laboratory exercises. The committee also ensures whether the animals permitted to be used for dissection and Laboratory exercises are ethically procured from sources following all research ethics norm.

2022 – 2023

23

Department of Zoology

Minutes of Dissection Monitoring committee (DMC)

The Dissection Monitoring committee of the Department of Zoology was held on 31.03.2023 at 3.00 pm in the Zoology Lab.

Members present -

1. Dr. A. Tamil Selvi [Convener & chairperson] 31/03/23
2. Dr. Antony Amala Jayaseeli [Internal member]
3. Dr. N. Malathi [Internal Member] 31/3/2023
4. Dr. M.V. Leena chandra [member] 31/3/2023
   Assistant Professor
   The Research centre of Physics
   Fatima college, madurai-18
5. Capt. Dr. N. Arun Nagendran 31/3/23
   Associate Professor
   PG & Research Department of Zoology
   Thiagarajar college
   Madurai - 625 009
6. Dr. J. Asnet Mary 31/3/2023
   Assistant Dean of Research
   Research Advisory committee (RAC)
   Fatima college, Madurai-18

The Dissection Monitoring committee of Department of Zoology, Fatima college reviewed the syllabi of I UG & I PG Lab course designed as per the TANSCHE grid & guidelines.

I B.Sc Zoology

Semester I - Lab - Invertebrata & Cell Biology

Semester II - Lab - Chordata & Genetics

I M.Sc Zoology

Semester I - Lab in Invertebrata & Cell Biology

Semester II - Lab in Chordata & Genetics

24

The following suggestions are given regarding these Lab courses

1. The course content/experiments included in both I UG & I PG Lab courses are intune with the UGC guidelines.
2. Permitted animals are only included for the dissections/mountings.

Members –

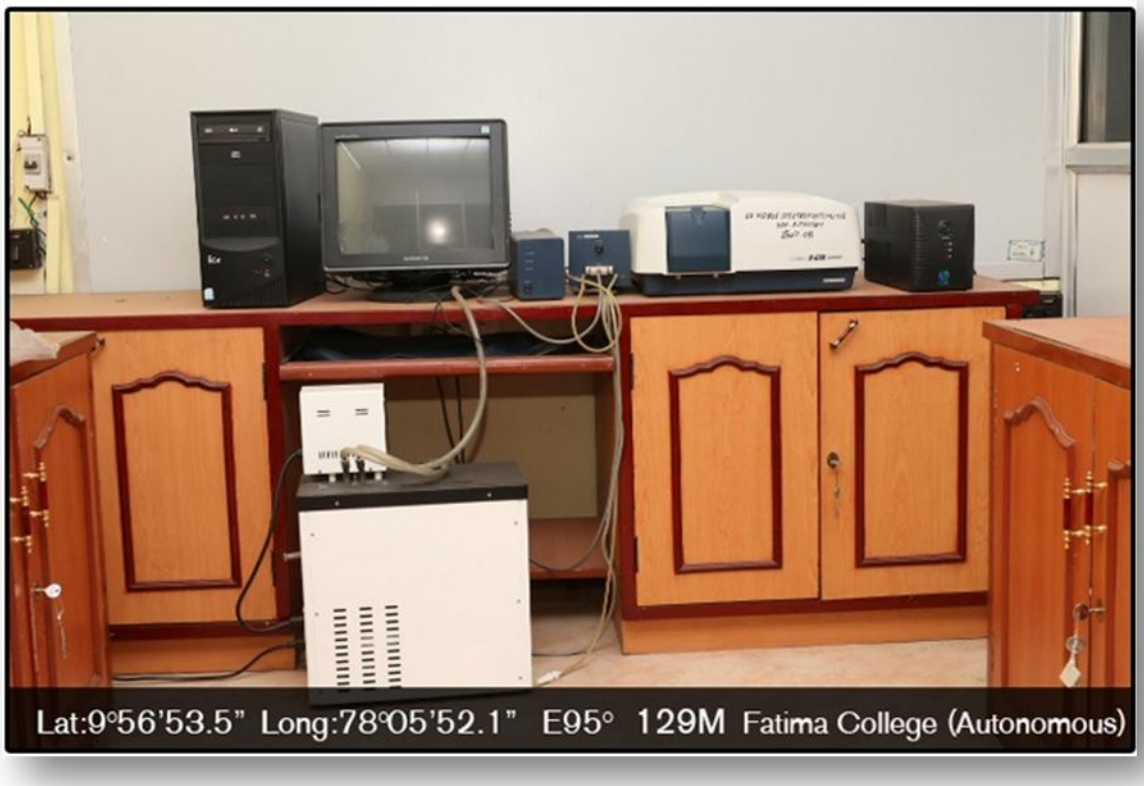
1. Dr. A. Tamil Selvi — 31/03/23
2. Dr. Antony Amala Jayaseeli — Antony Amala Jayaseeli
3. Dr. N. Malathi — 31/3/2023
4. Dr. M.V. Leena chandra — 31/3/2023
5. Capt. Dr. N. Arun Nagendran [External Subject Expert] — 31/3/23
6. Dr. J. Asnet Mary (Assistant Dean of Research, Research Advisory Committee, Fatima College, Madurai-18 — 31/3/2023

INSTRUMENTS TO FACILITATE RESEARCH

MICRO WAVE SYNTHESIZER (CHEMISTRY)

TEMPERATURE CONTROLLED MECHANICAL SHAKER (CHEMISTRY)

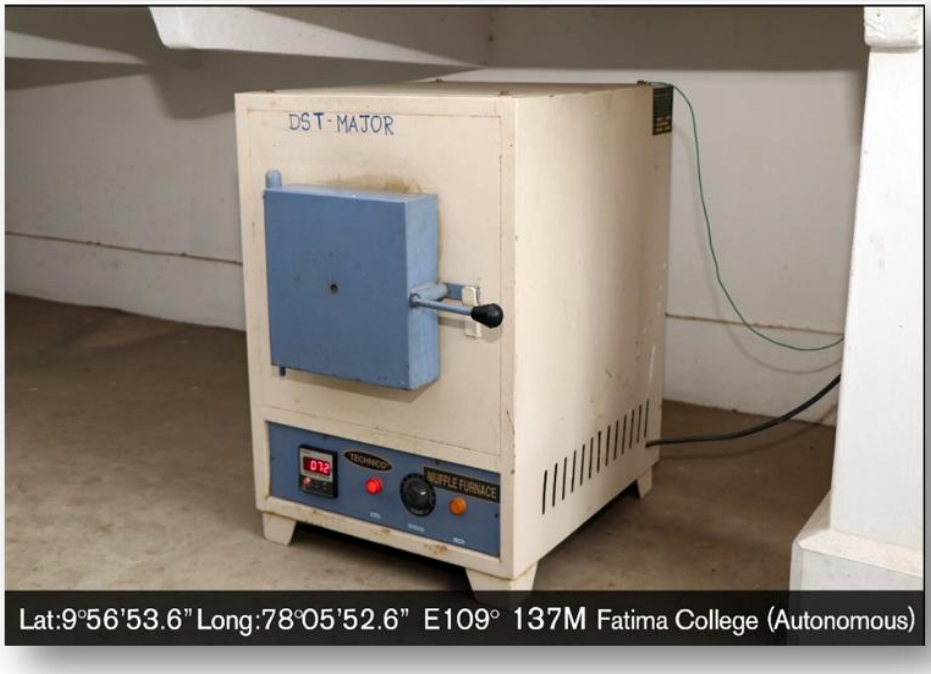
UV – VISIBLE SPECTROMETER (CHEMISTRY)



ROTOR VAPOUR WITH VACUUM PUMP (CHEMISTRY)

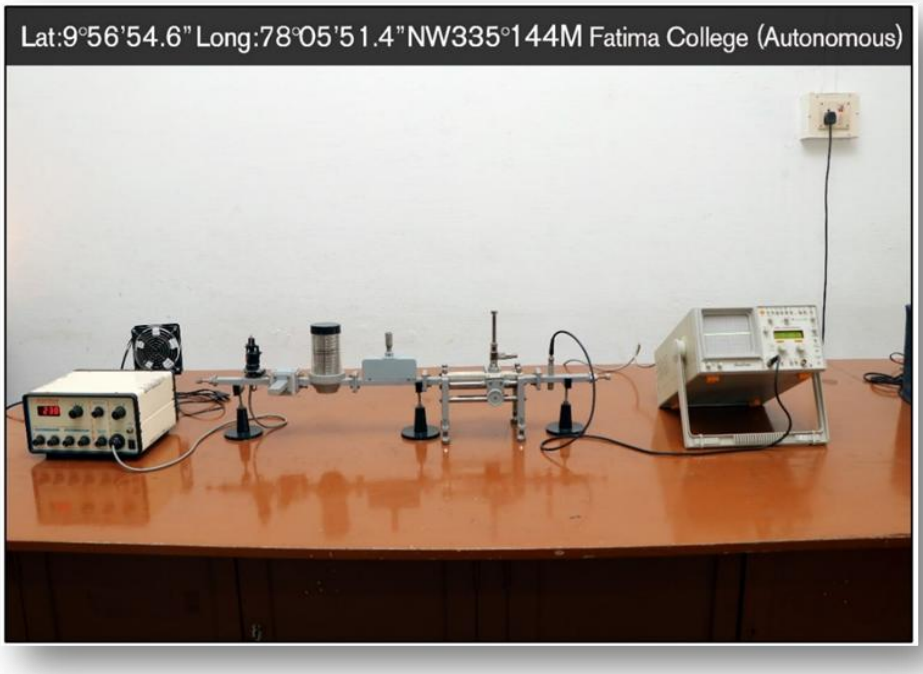
SONICATOR (PHYSICS)

MUFFLE FURNACE (PHYSICS)



HOT AIR OVEN (PHYSICS)

MICROWAVE LAB KIT (PHYSICS)

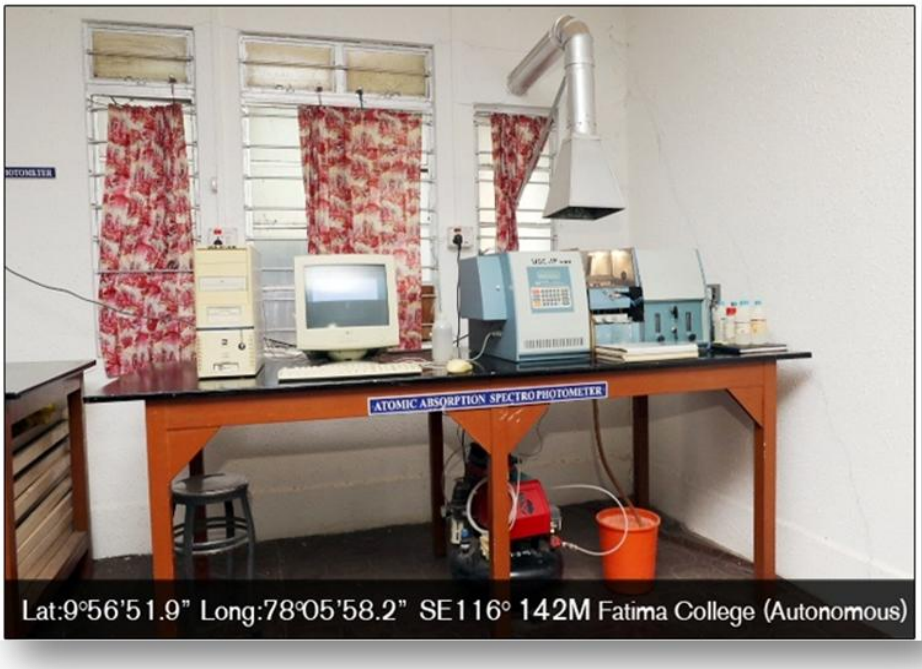


LCR HI TESTER (PHYSICS)

LAMINAR AIR FLOW CHAMBER (HOME SCIENCE)

GAS CHROMATOGRAPHY (HOME SCIENCE)

ATOMIC ABSORPTION SPECTRO PHOTOMETER (HOME SCIENCE)



SHRINKAGE SCALE TEMPLATE (HOME SCIENCE)

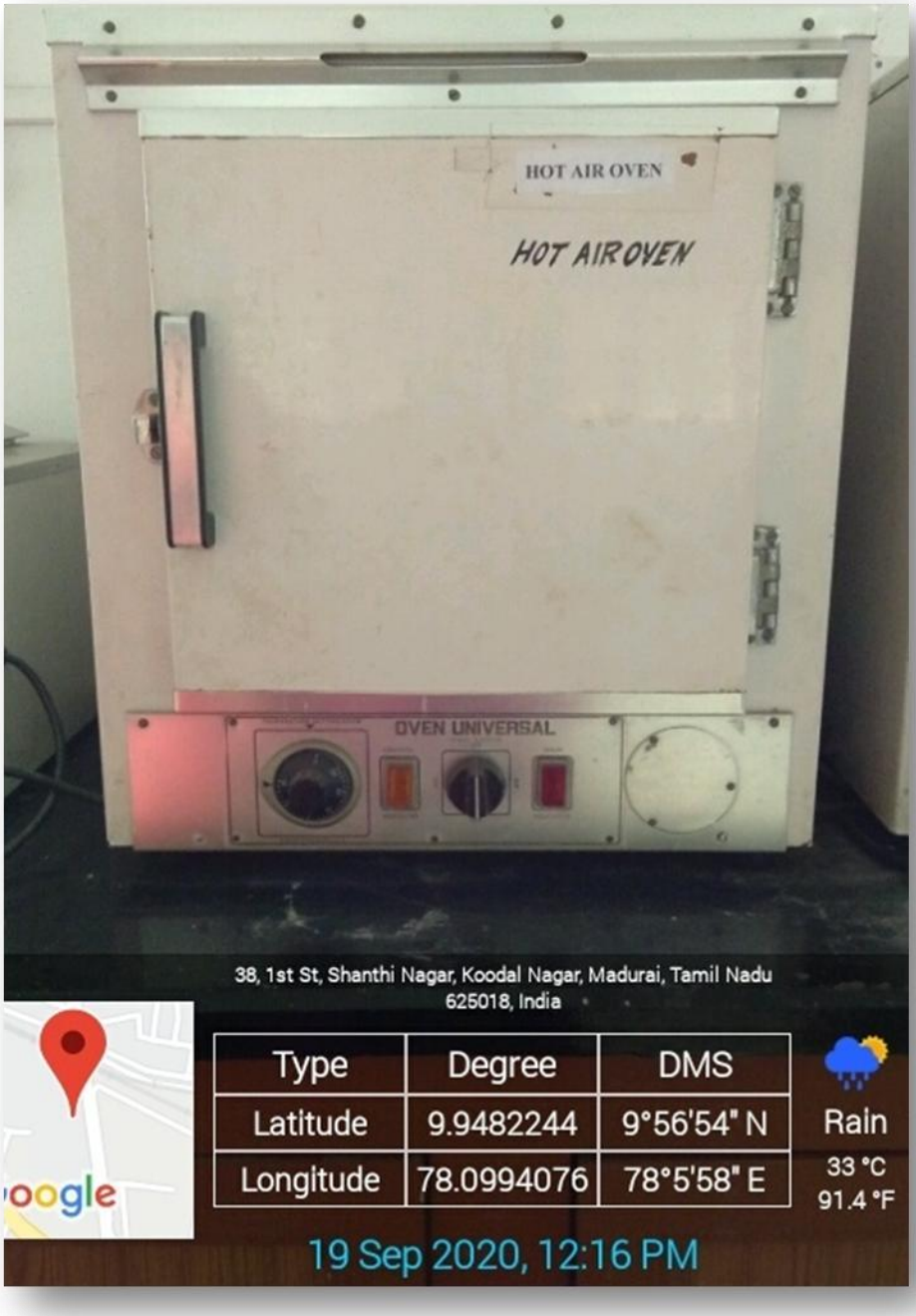
MODIFIED ATMOSPHERIC PACKAGING (HOME SCIENCE)

ROTARY SHRINK WRAPPER (HOME SCIENCE)

ELECTRONIC FABRIC TENSILE STRENGTH TESTER (HOME SCIENCE)

EXTRUDER MACHINE (HOME SCIENCE)

HOT AIR OVEN (ZOOLOGY)

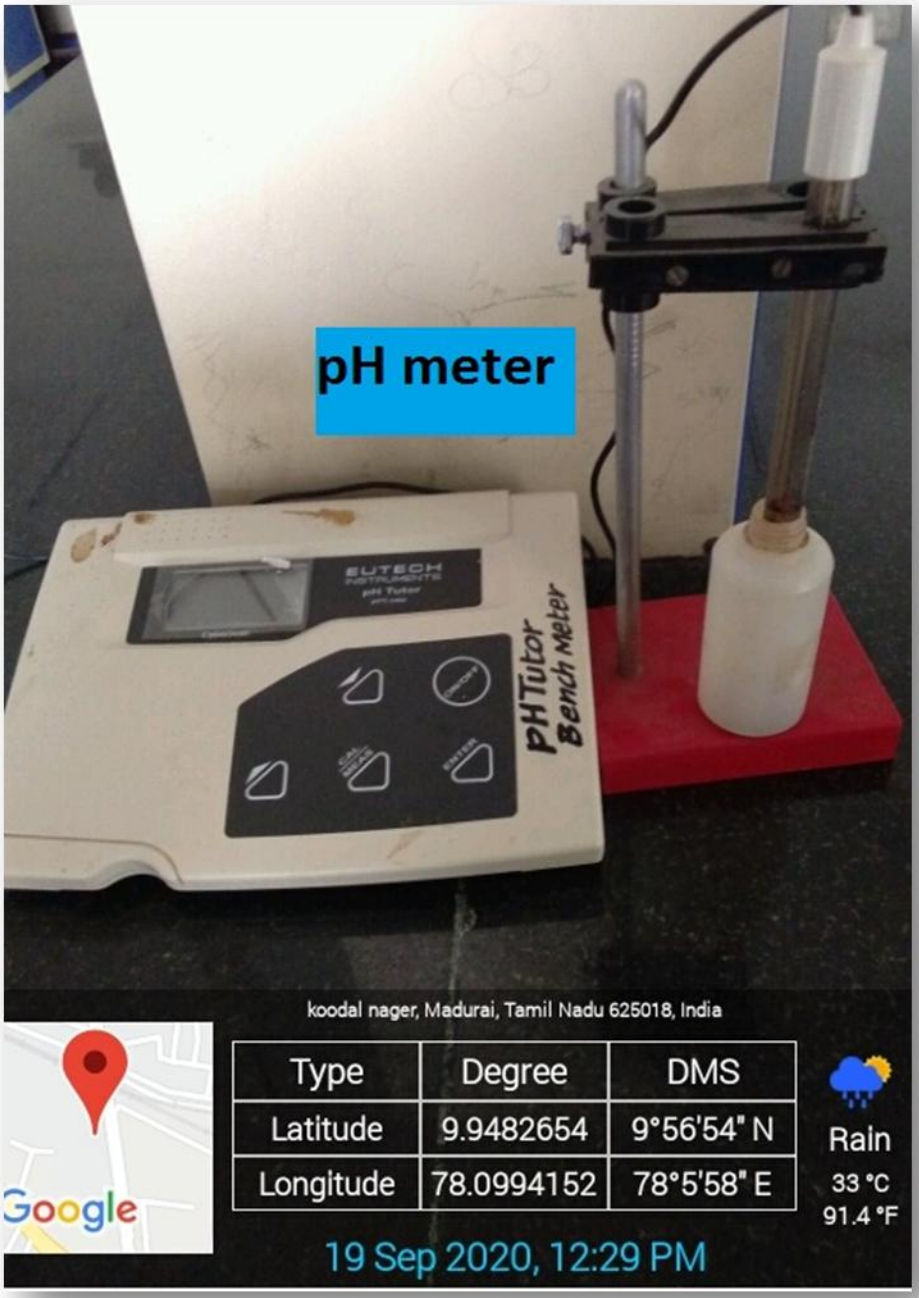


INCUBATOR (ZOOLOGY)

HOMOGENIZER (ZOOLOGY)

DIGITAL PHOTO COLORIMETER (ZOOLOGY)

PH METER (ZOOLOGY)

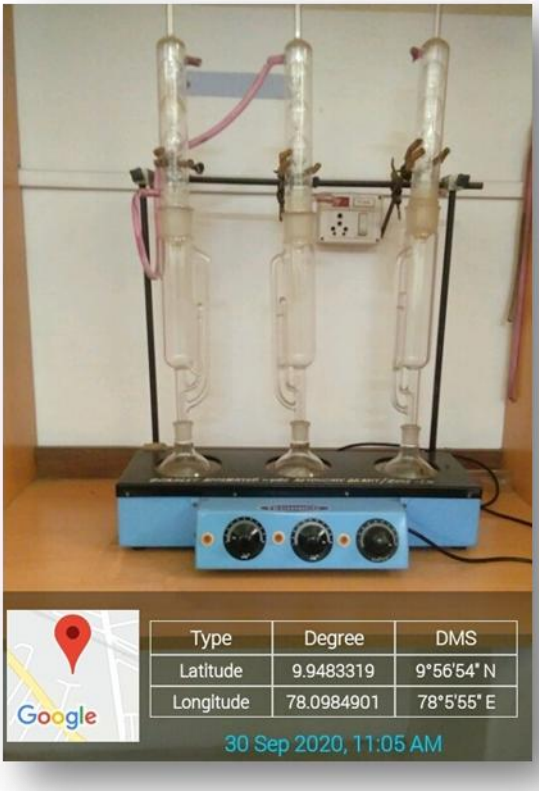


THERMO CYCLER (PCR) (ZOOLOGY)

MICRO CENTRIFUGE (1 – 2 ML) (ZOOLOGY)

COOLING MICROFUGE (ZOOLOGY)

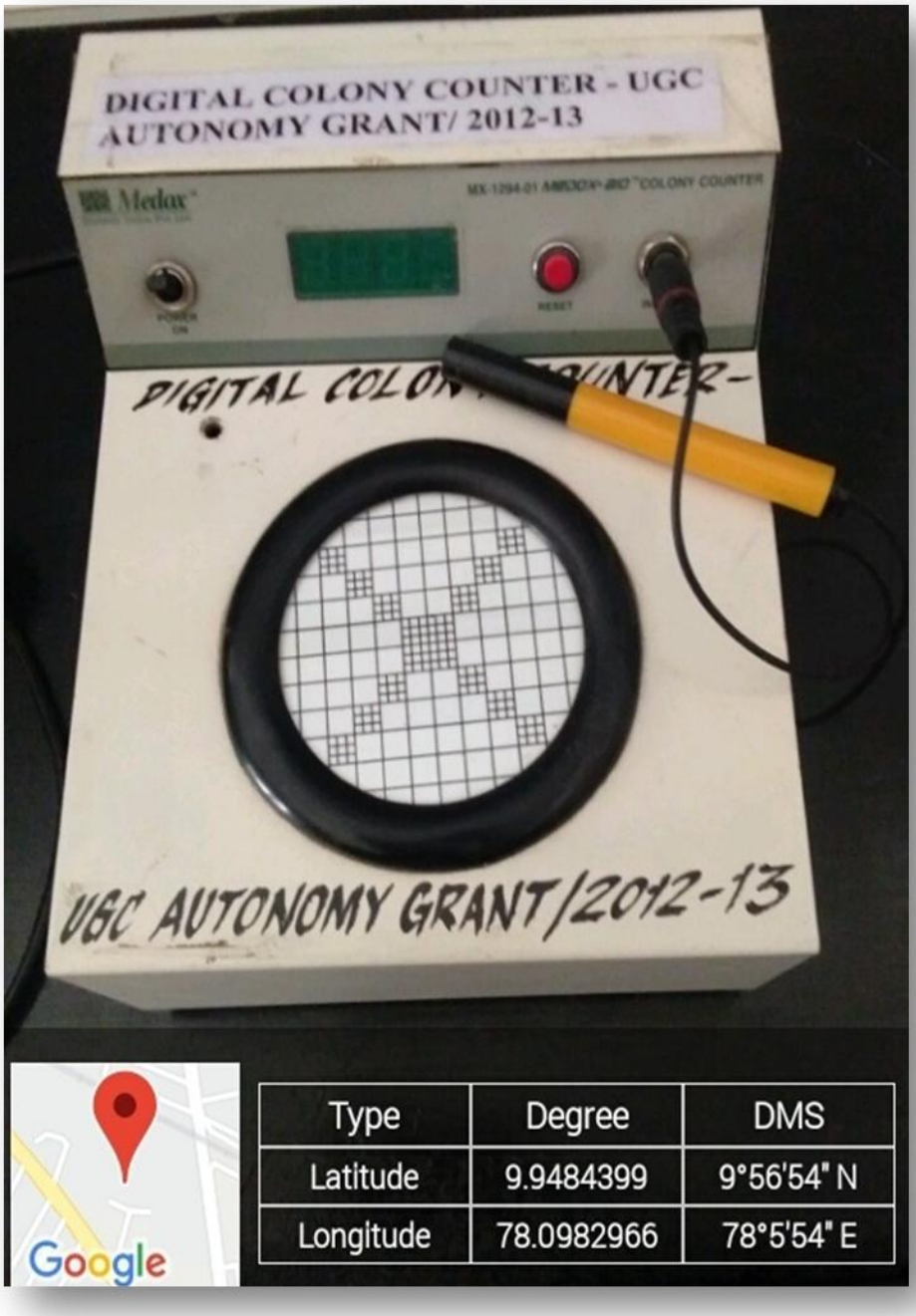
SOXHLET APPARATUS (ZOOLOGY)



MUFFLE FURNACE (ZOOLOGY)

UV TRANS ILLUMINATOR (ZOOLOGY)

DIGITAL COLONY COUNTER (ZOOLOGY)



Type	Degree	DMS
Latitude	9.9484399	9°56'54" N
Longitude	78.0982966	78°5'54" E

LAMINAR AIR FLOW (ZOOLOGY)

Type	Degree	DMS
Latitude	9.9483433	9°56'54" N
Longitude	78.0989978	78°5'56" E

TISSUE CULTURE CHAMBER (ZOOLOGY)

INSTRUMENTATION CENTRE

WI-FI POINTS

Lat:9°56'54.8" Long:78°05'52.3" W261° 154M Fatima College (Autonomous)

Lat:9°56'55.2" Long:78°05'57.5" S177° 172M Fatima College (Autonomous)

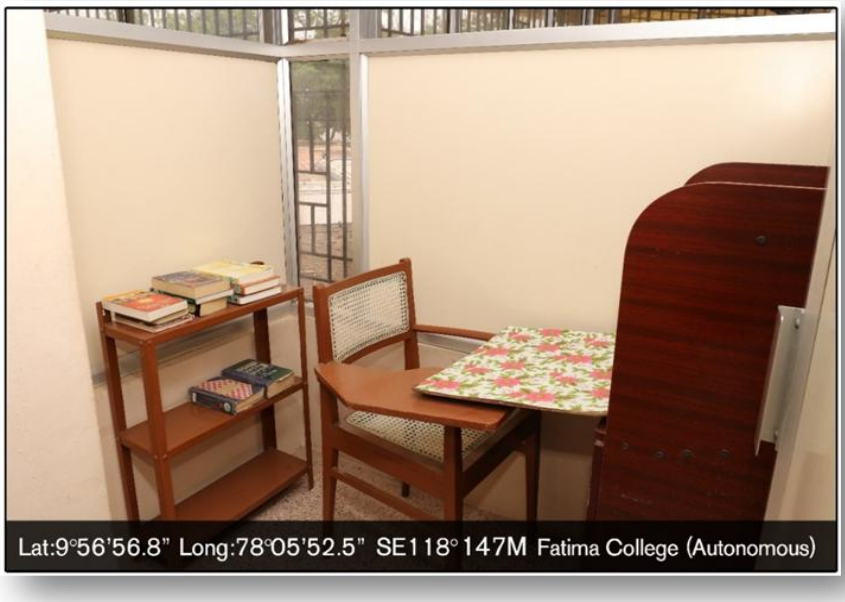
Lat:9°56'55.6" Long:78°05'55.0" W256° 152M Fatima College (Autonomous)

Lat:9°56'54.5" Long:78°05'57.8" S167° 174M Fatima College (Autonomous)

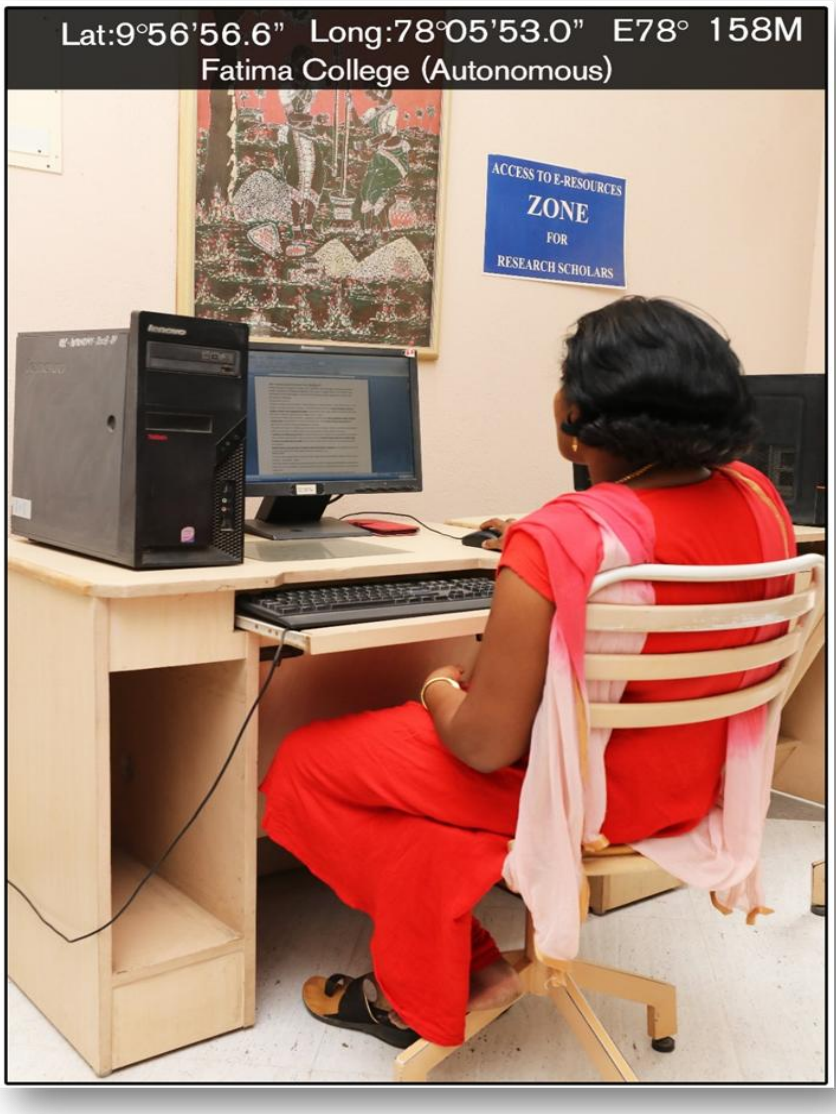
Lat:9°56'53.3" Long:78°05'56.0" S191° 181M Fatima College (Autonomous)

INFRASTRUCTURE FOR RESEARCH

CUBICLES IN THE LIBRARY FOR RESEARCHERS



RESEARCH SCHOLAR'S ZONE IN LIBRARY



FATIMA COLLEGE (AUTONOMOUS)
MARY LAND, MADURAI - 625018

ROSA MYSTICA LIBRARY

APPLICATION FORM FOR PLAGIARISM CHECK REPORT

Application No.*

Date - 19.05.2022

To
The Librarian,
Fatima College
Madurai

Subject: Request for plagiarism check report of PG Dissertation.

Madam,

I am submitting herewith a softcopy of my PG dissertation. You are kindly requested to check plagiarism & issue me a report to that effect.

Name of the Student with Register No.: Miss/-Mrs. Dr. P. Parvathy

Mobile No. & Email ID: 9942323996 sparvathienglishfc@gmail.com

Title of the PG. dissertation: Resuscitating Indigenous Practices

I declare that, I am aware of anti-plagiarism policy of Fatima College, Madurai. I further declare that the soft copy being submitted for plagiarism check is the same as print copy of dissertation / thesis.

S. Parvathi

Signature of the Research Guide

Designation & Department

Assistant Professor
The Research Centre of English

S. Parvathi

Signature of Research Scholar:

Forwarded by the HOD
Signature with Seal

*for office use only

FATIMA COLLEGE (AUTONOMOUS)
MARY LAND, MADURAI - 625018

ROSA MYSTICA LIBRARY
PLAGIARISM CHECK REPORT NO. 1/2/3

1.	Name of the Research Scholar	Dr. Parvathy		
2.	Title of the Thesis/ Dissertation	Resuscitating Indigenous Practices		
3.	Name of the Research Guide			
4.	Department	English		
5.	Similarity Content (%)	1st	2nd	3rd
	(up to 30% acceptable)	19%	13%	5%
6.	Plagiarism detection tool applied	DrillBit		
7.	Date of plagiarism check	19.05.2022		

Checked by

Name: Dr. C. SUJATHA

Designation: LIBRARIAN

Signature: C. Sujatha

Date: - 19.05.2022

FATIMA COLLEGE (AUTONOMOUS)
MARY LAND, MADURAI - 625018

ROSA MYSTICA LIBRARY

APPLICATION FORM FOR PLAGIARISM CHECK REPORT

Application No.*

Date - 28/3/2023

To
The Librarian,
Fatima College
Madurai

Subject: Request for plagiarism check report of PG Dissertation.

Madam,

I am submitting herewith a softcopy of my PG dissertation. You are kindly requested to check plagiarism & issue me a report to that effect.

Name of the Student with Register No.: ~~Miss~~/ Mrs. T. Sabeetha

Mobile No. & Email ID: 7397109942 & sabeethagokulraja@gmail.com

Title of the PG. dissertation: Development and characterization of a biomaterial (CENTELLA ASIATICA LEAF) based electrolyte for electrochemical devices.

I declare that, I am aware of anti-plagiarism policy of Fatima College, Madurai. I further declare that the soft copy being submitted for plagiarism check is the same as print copy of dissertation / thesis.

Signature of the Research Guide 28/3/23

T. Sabeetha
Signature of Research Scholar:

Designation & Department
Asst. Prof,
Research Centre of Physics

Forwarded by the HOD
Signature with Seal

*for office use only

FATIMA COLLEGE (AUTONOMOUS)
MARY LAND, MADURAI - 625018

ROSA MYSTICA LIBRARY
PLAGIARISM CHECK REPORT NO. 1/2/3

1.	Name of the Research Scholar	T. Sabeetha		
2.	Title of the Thesis/ Dissertation	Development and Characterization of a biomaterial based electrolyte for electrochemical devices.		
3.	Name of the Research Guide			
4.	Department	Physics		
5.	Similarity Content (%) (up to 30% acceptable)	1st	2nd	3rd
		30%	23%	17%
6.	Plagiarism detection tool applied	DrillBit		
7.	Date of plagiarism check	27.03.2023		

Checked by

Name: Dr. C. SUJATHA

Designation: LIBRARIAN

Signature: C. Sujatha

Date: - 27.03.2023

RESEARCH ADVISORY COMMITTEE/STUDENT RESOURCE FORUM

The Students' Resource Forum is an active students' wing of the Research Advisory Committee (RAC). The members of RAC motivate students to undertake various research projects.

The Students' Resource Forum has initiated projects which would be presented in Exploria, an annual intercollegiate research fest. Around 28 teams of 146 participants representing Shift I and 20 teams of 93 members from Shift IIcourses of the host institution had sent abstracts. 15 teams of 35 participants from across the state competed in the Research Fest EXPLORIA 2023, conducted on March2, 2023.

The RAC reviews the research activities and plans ways and means to create a research culture on campus by developing the research acumen among staff and students. The Management through RAC provides seed money to staff members.

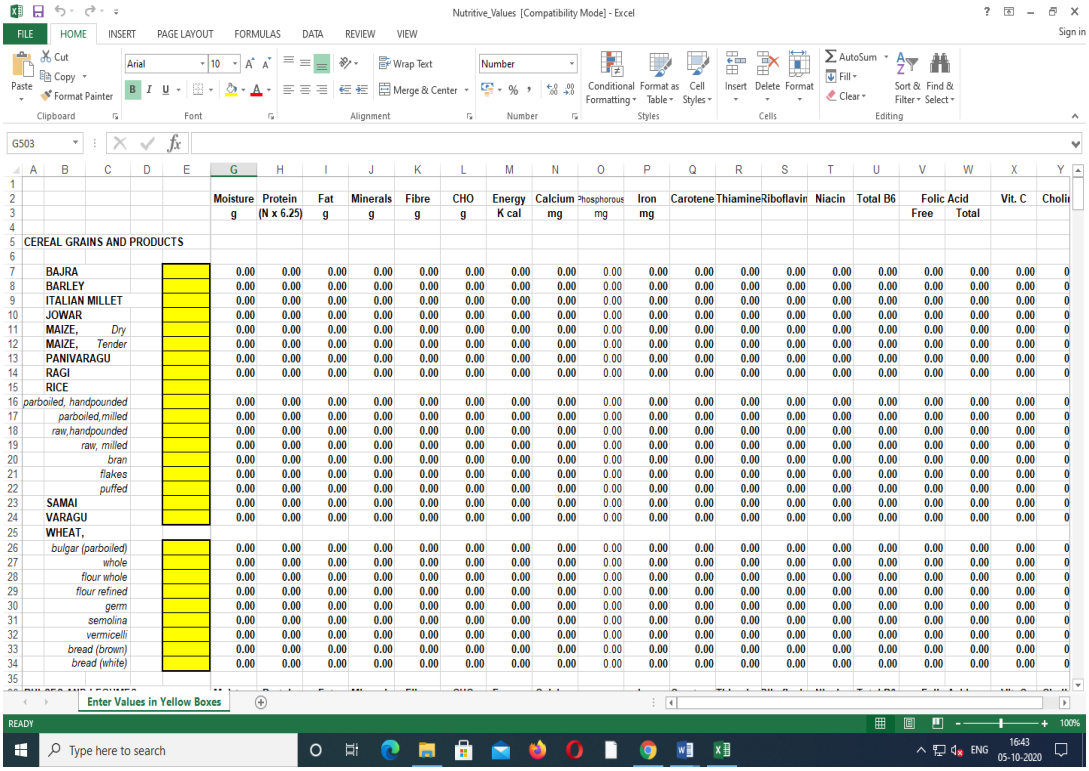
NUTRICAL SOFTWARE DEVELOPED BY THE RESEARCH CENTRE OF HOME SCIENCE

INTRODUCTION

- **CALCULATES NUTRITIVE VALUE OF EDIBLE FOOD AS PER THE NUTRITIVE VALUE OF INDIAN FOOD IN EXCEL FORMAT**
- **UPLOADED BY THE DEPARTMENT OF HOME SCIENCE WITH FOOD BIOTECHNOLOGY**

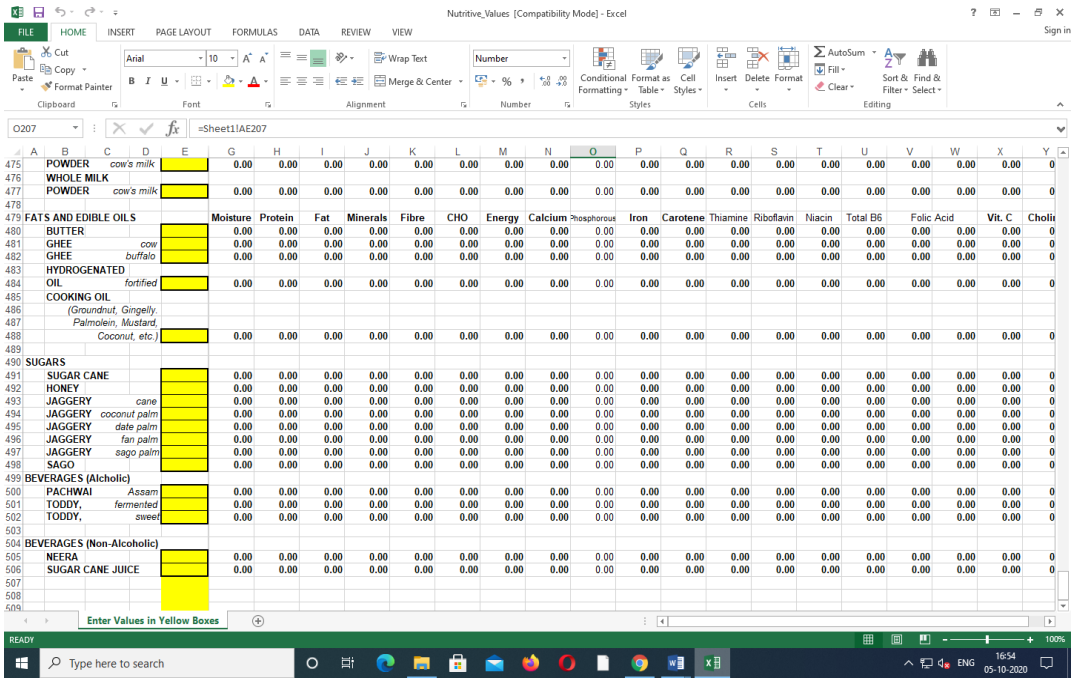
CONTACT

Email : vasanthaerani@gmail.com



Nutritive_Values [Compatibility Mode] - Excel

	Moisture g	Protein (N x 6.25)	Fat g	Minerals g	Fibre g	CHO g	Energy K cal	Calcium mg	Phosphorous mg	Iron mg	Carotene	Thiamine	Riboflavin	Niacin	Total B6	Folic Acid Free	Folic Acid Total	Vit. C	Choli
CEREAL GRAINS AND PRODUCTS																			
BAJRA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
BARLEY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
ITALIAN MILLET	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
JOWAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
MAIZE, *Dry*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
MAIZE, *Tender*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
PANIVARAGU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
RAGI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
RICE																			
parboiled, handpounded	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
parboiled,milled	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
raw,handpounded	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
raw, milled	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
bran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
flakes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
puffed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
SAMAI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
VARAGU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
WHEAT,																			
bulgar (parboiled)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
whole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
flour whole	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
flour refined	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
germ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
semolina	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
vermicelli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
bread (brown)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
bread (white)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0



Nutritive_Values [Compatibility Mode] - Excel

	Moisture	Protein	Fat	Minerals	Fibre	CHO	Energy	Calcium	Phosphorous	Iron	Carotene	Thiamine	Riboflavin	Niacin	Total B6	Folic Acid	Vit. C	Choli
POWDER *cow's milk*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
WHOLE MILK																		
POWDER *cow's milk*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
FATS AND EDIBLE OILS																		
BUTTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
GHEE *cow*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
GHEE *buffalo*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
HYDROGENATED OIL *fortified*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
COOKING OIL *(Groundnut, Gingelly, Palmolein, Mustard, Coconut, etc.)*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
SUGARS																		
SUGAR CANE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
HONEY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
JAGGERY *cane*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
JAGGERY *coconut palm*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
JAGGERY *date palm*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
JAGGERY *fan palm*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
JAGGERY *sago palm*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
SAGO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
BEVERAGES (Alcholic)																		
PACHWAI *Assam*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
TODDY, *fermented*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
TODDY, *sweet*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
BEVERAGES (Non-Alcoholic)																		
NEERA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
SUGAR CANE JUICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0