

INTERNSHIPS RECORD

Dept. of Biochemistry



Govt. College for Women (A)

Guntur

Andhra Pradesh

Internship is to work at a firm for a fixed period of time. It helps to bridge the gap between the educational and professional world, hence the Department of Biochemistry had planned to send the students to industrial side like **TULASI SEEDS PVT LTD, Ameenabad, Guntur**, and medical side **Government General Hospital, Guntur**. To extend their theoretical knowledge in the respective field

An internship gives **practical skills, workplace experience and greater knowledge** of that industry to the students attended. Advanced learners of the Department were selected and sent to gain the knowledge in practical skills with workplace environment.

Final year students of the Department were sent to the respective places to flourish in the respective areas and to guide the rest of the students towards higher education.



STUDENT INTERNSHIP at TULASI SEEDS PVT LTD, Ameenabad, Guntur

During 2019-20

The purpose of internship is to expose students to real work environment and at the same time, to gain the knowledge through hands on observation. This practical training program allows students to relate theoretical knowledge with its application in the industry.

The Objectives Of Internship Are:

- To develop skills in the application of theory to practical work situations.
- To develop skills and techniques directly applicable to their careers.
- To expose students to real work environment experience gain knowledge in writing report in technical works/projects.

Duration of internship: 20-04-2019 to 04-06-2019

Beneficiaries of the Program- 7 students from II B.Sc Biochemistry

Location: R & D department: Tulasi Seeds Pvt Ltd, Ameenabad, Guntur

Description : The **Tulasi Seeds Pvt Ltd**, Guntur is among the renowned industry in the area serving millions of farmers. It is famous for providing quality in the BT-cotton seed industry which have been approved by the Govt. of India, New Delhi for commercial cultivation and these BG II / BT hybrids are showing excellent performance in farmers' fields..

Department of Biochemistry is offering Molecular Biology & Genetic Engineering in the V & VI semester. Hence to enable the students to have good practical exposure in the concerned topics, we are linked with **Tulasi Seeds Pvt Ltd**, Guntur, which offers Internships to students in the concerned subject.

The students were sent to R & D division during summer vacation as they can attend the lab in full time which allowed the scientist to have attention on students and to involve students in real work. The right time for the workplace environment doing real work.

There the students learned various techniques of molecular biology used in the current research.

Title of the Project work: *Estimation of Bt Gene and Bt protein In Tulasi Cotton Hybrid Seeds By ELISA And PCR Screening*

Aim: The aim of the project is to identify the Bt gene and Quantify the Bt protein in two different Tulasi Bt cotton hybrids TCS-4 and TCHH-25. This involves isolation of the DNA from the hybrids and amplifying the Bt gene by PCR amplification and testing the zygosity of the Bt gene in the plant hybrid using Gel Electrophoresis.

Objectives:

- ✚ To standardized qualitative ELISA for the detection of Bt protein.
- ✚ To isolate DNA from hybrid Bt cotton seeds.
- ✚ To perform PCR for amplification of isolated DNA.
- ✚ To standardized Gel electrophoresis for the detection of the Zygosity.
- ✚ To study the germinating capacity of BT cotton seeds by Tissue culture

List of students attended internship

S.No	Reg No	Student Name	Program
1.	1740501	D. Honey	405
2.	17405	Pratyusha	405
3.	17405	Asha	405
4.	17405	Roshni	405
5.	17405	Sai Prasanna	405
6.	17405	Sireesha	405
7.	17405	Haritha	405

Outcomes :

- ✚ Students could understand theory through practical approach.
- ✚ Able to learn different techniques of Molecular Biology and Tissue Culture used in the current research
- ✚ Safety precautions while handling the chemicals and instruments.



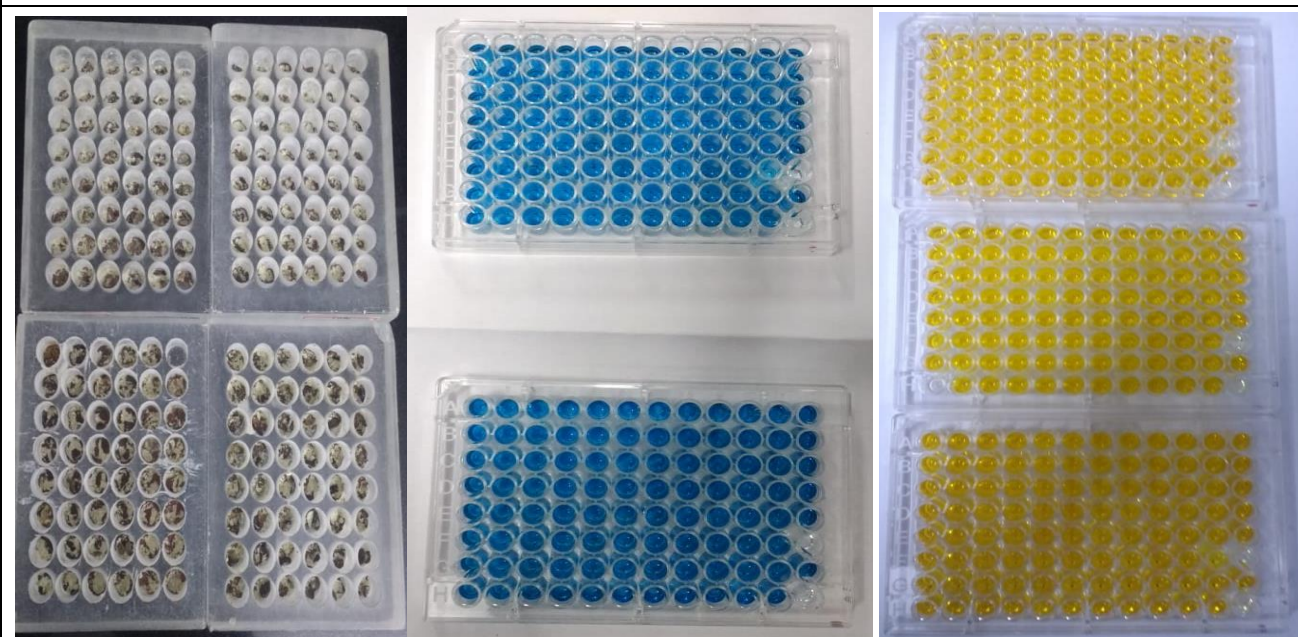
Tulassi Seeds Chairman Sri Ramachandra Prabhu interacting with students undergoing internship

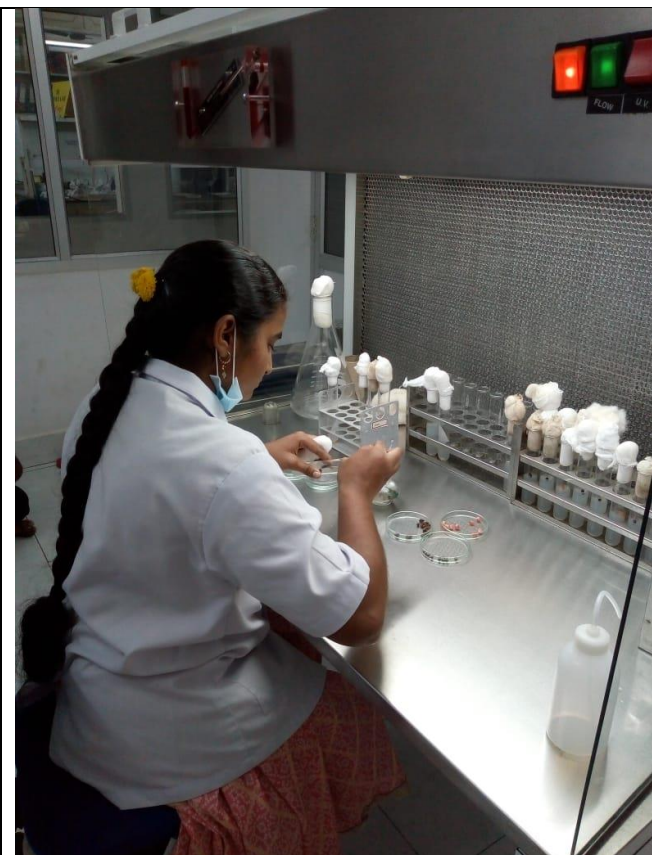


Students with Tulasi Seeds Managing Director Sri Yogish Chandra



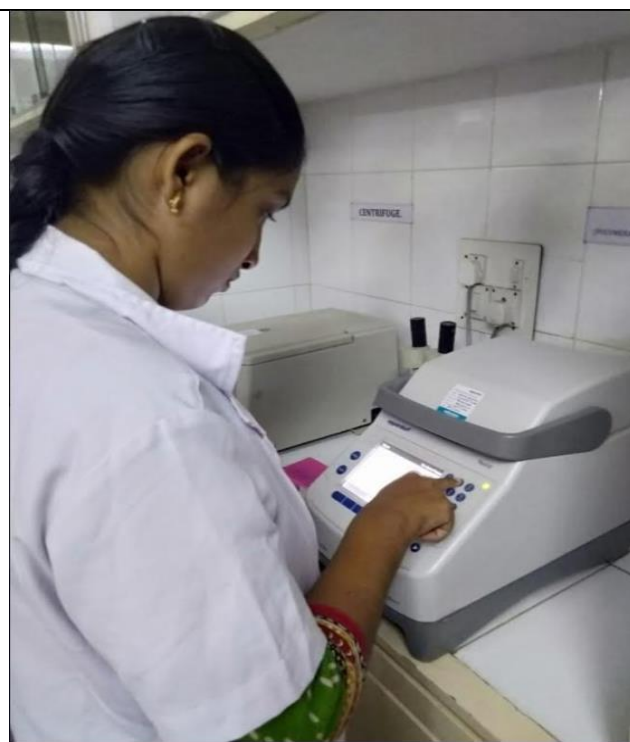
Students performing ELISA to test BT protein in Cotton seeds





Tissue culture work under aseptic conditions





Operating PCR



Loading gel for separation of DNA



Observing the separated DNA



TULASI SEEDS PVT. LTD.

6-4-6, Arundelpet 4/5
Guntur 522 002, AP INDIA
Phone 91 863 222 3254 / 222 4947
Fax +91 40 30995241
www.tulasiseeds.com

An ISO 9001: 2008 Company
CIN : U01112AP1994PTC017615

12 APRIL 2018

To
Dr Ch.Pulla Reddy, Mcom, Ph.D.,
Principal , Govt. College For Women,
Guntur.

Respected Sir,

Sub: Proposal for Linkage with Depts of, Biochemistry ,Microbiology & Biotechnology , Govt.
College for Women , Guntur- Reg

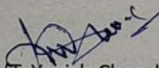
We M/s Tulasi Seeds Pvt. Ltd. , Guntur ready to offer internship to the students for a period for
one month study on Recombinant DNA technology , Molecularbiology , Immunology and Bio-
analytical techniques 3 members each Dept. We will be arranging a field trip if feasible
otherwise in our R & D and Green House the training will be carried out.

It is to inform you that we will not be paying any stipend or any other allowance for the above
during the internship to any of the participants.

Please forward the schedule for the trainee as mentioned.

Thanking You,

Yours Sincerely,


(T. Yogish Chandra)
Managing Director





TULASI SEEDS

Ref: TSPL / Bt Lab/ 51 / 2019-20

Date: 29-May-2019

TO WHOMSOEVER IT MAY CONCERN

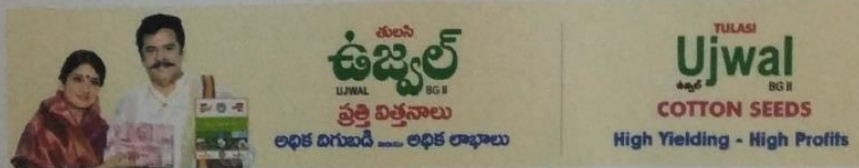
This is to certify that **Ms.D.Honey, ID.No: 17405001** has done the internship at our Tulasi Biotechnology Research Laboratory from **17th April 2019 to 29th May 2019**. She has done the internship titled "**Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR screening and Elisa Testing**" during her 2nd B.Sc. (Biochemistry) **Govt Degree College For Women, Guntur**, Under the guidance and supervision of our Jr. Scientist and R&D Lab In charge **Mr.L.Subbarayudu., M.Sc.(Biotechnology)**. She is sincere, hard working and keen to learn new techniques of molecular biology.

T.Yogish Chandra
Managing Director.

L.Subbarayudu .MSc(Biotech)
Jr. Scientist & R&D Lab In charge.



Regd. Office : Tulasi House, # 6-4-6, Arundelpet 4/5, Guntur 522 002, AP, INDIA, ☎: +91-863-2223254, www.tulasiseeds.com



STUDENT INTERNSHIP at TULASI SEEDS PVT LTD, Ameenabad, Guntur

During 2018-19

The purpose of internship is to expose students to real work environment and at the same time, to gain the knowledge through hands on observation. This practical training program allows students to relate theoretical knowledge with its application in the industry.

The Objectives Of Internship Are:

- To develop skills in the application of theory to practical work situations.
- To develop skills and techniques directly applicable to their careers.
- To expose students to real work environment experience gain knowledge in writing report in technical works/projects.

Duration of internship: 20-04-2018 to 04-06-2018

Beneficiaries of the Program- 3 students from II B.Sc Biochemistry

Location: R & D department: Tulasi Seeds Pvt Ltd, Ameenabad, Guntur

Description : The **Tulasi Seeds Pvt Ltd**, Guntur is among the renowned industry in the area serving millions of farmers. It is famous for providing quality in the BT-cotton seed industry which have been approved by the Govt. of India, New Delhi for commercial cultivation and these BG II / BT hybrids are showing excellent performance in farmers' fields..

Department of Biochemistry is offering Molecular Biology & Genetic Engineering in the V & VI semester. Hence to enable the students to have good practical exposure in the concerned topics, we are linked with **Tulasi Seeds Pvt Ltd**, Guntur, which offers Internships to students in the concerned subject.

The students were sent to R & D division during summer vacation as they can attend the lab in full time which allowed the scientist to have attention on students and to involve students in real work. The right time for the workplace environment doing real work.

There the students learned various techniques of molecular biology used in the current research.

Title of the Project work: *Estimation of Bt Gene and Bt protein In Tulasi Cotton Hybrid Seeds By ELISA And PCR Screening*

Aim: The aim of the project is to identify the Bt gene and Quantify the Bt protein in two different Tulasi Bt cotton hybrids TCS-4 and TCHH-25. This involves isolation of the DNA from the hybrids and amplifying the Bt gene by PCR amplification and testing the zygosity of the Bt gene in the plant hybrid using Gel Electrophoresis.

Objectives:

- ✚ To standardized qualitative ELISA for the detection of Bt protein.
- ✚ To isolate DNA from hybrid Bt cotton seeds.
- ✚ To perform PCR for amplification of isolated DNA.
- ✚ To standardized Gel electrophoresis for the detection of the Zygosity.
- ✚ To study the germinating capacity of BT cotton seeds by Tissue culture

List of students attended internship

S.No	Reg No	Student Name	Program
1	1640502	N. Narayanamma	405
2	1640517	K. Hymavathi	405
3	1640523	S. Krishna Priya	405

Outcomes :

- ✚ Students could understand theory through practical approach.
- ✚ Able to learn different techniques of Molecular Biology and Tissue Culture used in the current research
- ✚ Safety precautions while handling the chemicals and instruments.



TULASI SEEDS PVT. LTD.

6-4-6, Arundelpet 4/5
Guntur 522 002, AP INDIA
Phone 91 863 222 3254 / 222 4947
Fax +91 40 30995241
www.tulasiseeds.com

An ISO 9001: 2008 Company
CIN : U01112AP1994PTC017615

12 APRIL 2018

To
Dr Ch.Pulla Reddy, Mcom, Ph.D.,
Principal , Govt. College For Women,
Guntur.

Respected Sir,

Sub: Proposal for Linkage with Depts of, Biochemistry ,Microbiology & Biotechnology , Govt.
College for Women , Guntur- Reg

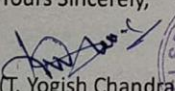
We M/s Tulasi Seeds Pvt. Ltd. , Guntur ready to offer internship to the students for a period for
one month study on Recombinant DNA technology , Molecularbiology , Immunology and Bio-
analytical techniques 3 members each Dept. We will be arranging a field trip if feasible
otherwise in our R & D and Green House the training will be carried out.

It is to inform you that we will not be paying any stipend or any other allowance for the above
during the internship to any of the participants.

Please forward the schedule for the trainee as mentioned.

Thanking You,

Yours Sincerely,


(T. Yogish Chandra)
Managing Director





TULASI SEEDS

Ref: TSPL /Bt Lab/ 11 / 2018-19

Date: 12-May-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.Krishnapriya Srirama Reg No.- 16405023** has done the internship at our Tulasi Biotechnology Research Laboratory from **20th April 2018 to 12^h May 2018**. She has done the internship titled **"Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR Screening and Elisa Testing"** during her 2nd B.Sc(Bio chemistry,Zoology&Chemistry)Govt degree college for women,Guntur.Under the guidance and supervision of our senior breeder (cotton) & R&D Incharge Mr. A. Balakrishnan., M.Sc. (Ag). She is sincere, hard working and keen to learn new techniques of molecular biology.

T.Yogish Chandra
Managing Director .

A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D Incharge.



PRACHANDA
BHASKAR BG II



TAAKATH BG II



SURYA BG II



SRI TULASI BG II



SOURAV BG II



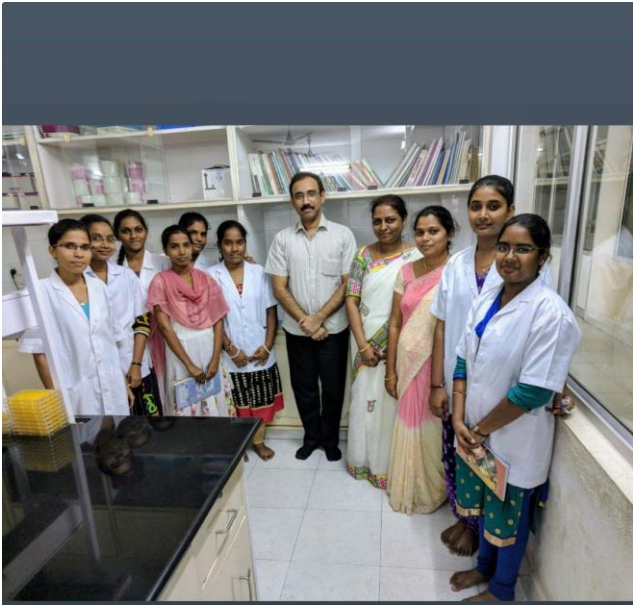
BHASKAR BG II



LOTUS BG II



UJWAL BG II



With Shri Tulasi Yogish,
Managing Director
at Tulasi Seeds Pvt. Ltd.



Work under sterile conditions



Loading BT Gene in gel for separation



Students with scientists at Tulasi Seeds Pvt. Ltd.



TULASI SEEDS

Ref: TSPL /Bt Lab/ 15 / 2018-19

Date: 12-May-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Hymavathi Kethavath Reg No.- 16405017** has done the internship at our Tulasi Biotechnology Research Laboratory from **20th April 2018 to 12th May 2018**. She has done the internship titled **"Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR Screening and Elisa Testing"** during her 2nd B.Sc (Bio chemistry,Zoology&Chemistry), Govt degree college for women,Guntur. Under the guidance and supervision of our senior breeder (cotton) & R&D In charge Mr. A. Balakrishnan., M.Sc. (Ag). She is sincere, hard working and keen to learn new techniques of molecular biology.

T.Yogish Chandra
Managing Director .

A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D In charge.



PRACHANDA
BHASKAR BG II



TAAKATH BG II



SURYA BG II



SRI TULASI BG II



SOURAV BG II



BHASKAR BG II



LOTUS BG II



UJWAL BG II



TULASI SEEDS

Ref: TSPL /Bt Lab/ 18 / 2018-19

Date: 04-June-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.Narayanamma.N. Reg No.- 16405002** has done the internship at our Tulasi Biotechnology Research Laboratory from **14th May 2018 to 4th June 2018**. She has done the internship titled **"Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR Screening and Elisa Testing"** during her 2nd B.Sc(Bio chemistry,Zoology&Chemistry), Govt degree college for women, under the guidance and supervision of our senior breeder (cotton) & R&D Incharge **Mr. A. Balakrishnan., M.Sc. (Ag)**. She is sincere, hard working and keen to learn new techniques of molecular biology.

T.Yogish Chandra
Managing Director .

A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D Incharge.



PRACHANDA
BHASKAR BG II



TAAKATH BG II



SURYA BG II



SRI TULASI BG II



SOURAV BG II



BHASKAR BG II



LOTUS BG II



UJWAL BG II

**STUDENT INTERNSHIP at GOVERNMENT GENERAL HOSPITAL,
Guntur**

During 2018-19

OFFICE OF THE SUPERINTENDENT, GOVERNMENT GENERAL HOSPITAL, GUNTUR

Rc.No.7987/G1/2018

Dt:2-1-2019

Sub:- Trainings-Permission for clinical attachment
to 17 no. of Final year B.Sc.(Biochemistry) students
from Govt. College for Women, Guntur-
From 3-1-2019 for a period (1 month)-
Orders- Issued.

Ref:- 1) Lr dt:14-12-2018 & 28-12-2018 from the
Principal, Govt. College for Women, Guntur.

@@@@

As per the reference 1st cited, the Superintendent, Government
General Hospital, Guntur is hereby permitted for clinical attachment to 17 (Seventeen)
No. of final year B.Sc. (Biochemistry) students from Government College for Women,
Guntur in "Clinical Biochemistry & Microbiology" from 3-1-2019 for a period of 1 month
(every Thursday, Friday, & Saturday) in the following departments of Government
General Hospital, Guntur.

- 1) Biochemistry
- 2) Microbiology

During the clinical attachment period, if there is any loss or
damage occurred by any of the student, the Govt. College for Women management is
responsible to pay the damage charges to G.G.H., Guntur.

The Principal, Govt. College for Women is requested to instruct all
the students to wear their college uniform and I.D. cards promptly during their
internship.

Encl:- Schedule of Clinical Attachment

//Attested//

Sd/-DR.D.S.RAJU NAIDU
SUPERINTENDENT



Assistant Director (Admin)

To
The Principal, Government College for Women, Guntur.
Copy to the Professor & H.O.D., Department of Biochemistry, G.G.H., Guntur.
Copy to the Professor & H.O.D., Department of Microbiology, G.G.H., Guntur.
Copy to Dr.Prasanthi, Associate Professor of Microbiology, GGH, Guntur with a request
to monitor and to take the attendance of the students.
Copy to HDS Junior Assistant, GGH, Guntur along with DD No.666922, dt:28-12-2018
of Rs.8,500/- to remit the amount in to HDS account immediately.
Copy to the File.

STATEMENT SHOWING THE CLINICAL ATTACHMENT SCHEDULE OF FINAL YEAR B.SC.
(BIO-CHEMISTRY) STUDENTS OF GOVT. COLLEGE FOR WOMEN, GUNTUR FROM
03-1-2019

Sl.No.	Name of the Student	Biochemistry	Microbiology
1	Emani Yamuna	From 3-1-2019 to 17-1-2019	From 18-1-2019 to 2-2-2019
2	Prasadam Nagalakshmi		
3	Puli Roja		
4	Valluri Sowjanya		
5	Kondapalli Neelima		
6	Darla Usha Rani		
7	Katevarapu Devayani		
8	Nandigam Narayanamma		
9	Bhavanasi Prameela		
10	Avala Mani	From 18-1-2019 to 2-2-2019	From 3-1-2019 to 17-1-2019
11	Gali Sukanya		
12	Hyderakhan Mahalakshmi		
13	Kethavath Hymavathi		
14	Srirama Krishna Priya		
15	Pasupuleti Nandini		
16	Nimmagadda Lakshmi Prasanna		
17	Jinka Lavanya		

//Attested//


Assistant Director (Admin)

Sd/-DR.D.S.RAJU NAIDU
SUPERINTENDENT


2/19

From
Dr.Ch.Pulla Reddy
Principal FAC
Govt College for Women (A)
Guntur

To
The Chief Superintendent
Governmental General Hospital
Guntur

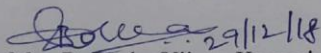
Sir,

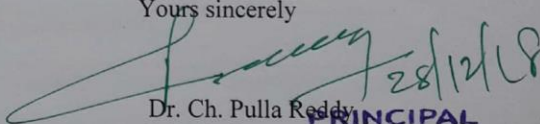
Sub: Govt College for Women (A), Guntur- Permission for internship for III BSc Biochemistry Students- as per the curriculum – Req-Reg.

I here with submit that our students of final B.Sc Biochemistry have to attend project work / internship in “Clinical Biochemistry & Microbiology” for a period of one month from 2nd January 2019, every Thursday, Friday, Saturday in a week until completion of 30 working days at Government General Hospital. As per the directions given by the superintendent, we have paid an amount of Rs. 8,500/- (Rupees Eight thousand and five hundred only) towards HDS, GGH, Guntur, with **DD number “666922”**. Hence I request you to accord permission for internship from 2nd January onwards. I here with enclose the list of the students who consented for the internship.

Thanking You

Yours sincerely


Mrs. B. Dorka Vijaya Kumari
i/c. Dept. of Biochemistry
GCW (A), Guntur

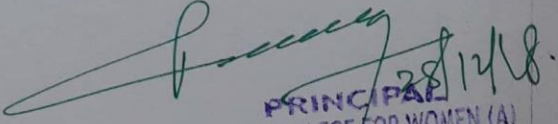

Dr. Ch. Pulla Reddy
Principal
GOVT. COLLEGE FOR WOMEN (A)
GCW (A), Guntur



2018-19

List of Final Year BSc Biochemistry Students for Internship at Govt.
General Hospital, Guntur

S.No	Regd no	Name Of The Students
1.	16404006	Emani. Yamuna
2.	16404011	Prasadam. Naga Lakshmi
3.	16404012	Puli. Roja
4.	16404014	Valluri. Sowjanya
5.	16404015	Kondapalli. Neelima
6.	16404018	Darla. Usha Rani
7.	16405001	Katevarapu. Devayani
8.	16405002	Nandigam. Narayanamma
9.	16405003	Bhavanasi. Prameela
10.	16405005	Avala. Mani
11.	16405010	Gali. Sukanya
12.	16405012	Hydarakhan. Mahalakshmi
13.	16405017	Kethavath. Hymavathi
14.	16405023	Srirama. Krishna Priya
15.	16405027	Pasupuleti Nandini
16.	16407002	Nimmagadda. Lakshmi Prasanna
17.	16407009	Jinka. Lavanya


PRINCIPAL
GOVT. COLLEGE FOR WOMEN (A)
GUNTUR

सिंडिकेटबैंक
SyndicateBank

3279

बी.आई. कोड
BI CODE

वी.आई. कोड की शाखा क्रम सं.
Br. Sr. No. of D.D. 3279/3012444

DEMAND DRAFT

28122018
D D M M Y Y Y Y

ऑंध्र क्रिश्चियन कॉलेज, गुंटुर - 522 002 (ऑ.प्र.)
ANDHRA CHRISTIAN COLLEGE, GUNTUR - 522 002 (A.P.)

वृत्थाप सं./Branch 0863-2217586

Not over ₹. 8500/- से अधिक नहीं

ON DEMAND PAY Hospital Development Society G.G.H. Guntur

OR ORDER

या उनके आदेश पर

Eight thousand five hundred only

₹ 8500/-

प्राप्त मूल्य के बदले अदा करें
FOR VALUE RECEIVED

सिंडिकेटबैंक/SyndicateBank
CBS

कृते सिंडिकेटबैंक /For SYNDICATEBANK

IFSC : SYNB0003279

Services Vidyananda
(अदाकर्ता शाखा/DRAWEE BRANCH)

वी.आई. कोड/BI Code 3369

प्राधिकृत हस्ताक्षरी/Authorized Signatory

D. MADHURI
Authorized Signatory
Sign No: 30723

VALID FOR 3 MONTHS FROM DATE OF ISSUE

MDCX प्रेषक का नाम/REMITTER'S NAME N. Sambasiva Rao

१६६६९२२ ००००२५००० ००३२७९ १६

GOVT. GENERAL HOSPITAL
29 DEC 2018
GUNTUR

From
Sri. Ch. Pulla Reddy
Principal (FAC)
Govt. College for Women (A), Guntur

To
The Superintendent
Govt. General Hospital
Guntur

Respected Sir,

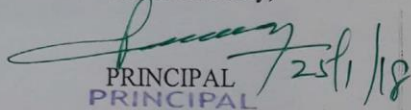
Sub : Request for **internship** for B.Sc**Biochemistry** students of GCW, Guntur., Reg.

With reference to the above subject, I would like to request you to extend your services by providing **one month** internship to our **B.ScBiochemistry** students (~30) at your hospital labs, so that they can be benefitted by learning different diagnostic tools to identify diseases and also to improve their employability chances in the society.

This association helps them in gaining a very good field & practical knowledge of what they have learnt in theory by collaborating with the experienced staff. We are ready to pay the fee as per the norms of the hospital. The relevant syllabus includes Physiology, endocrinology, Infectious - Non infectious diseases and their pathophysiology and Clinical Biochemistry. Please do the needful.

Thanking you.

Yours Sincerely,


PRINCIPAL
PRINCIPAL
GOVT. COLLEGE FOR WOMEN (A)
GUNTUR.



ATTENDANCE CERTIFICATE

Attendance particulars of the 3rd year B.Sc., Biochemistry Students who attended for the Clinical Biochemistry Laboratory from 3-1-19 to 9-2-19 (3 days in a week) in Government General Hospital, GUNTUR.

NAME of the Student	No. of classes	
	present	absent
E.Yamuna	12	1
P.Naga Lakshmi	13	2
P.Roja	11	2
V.Soujanya	10	3
K.Neelima	13	nil
D.Usha rani	9	4
K.Devayani	13	nil
N.Narayanamma	12	1
B.Prameela	12	1
A,Mani	11	2
G.Sukanya	13	nil
H.Mahalakshmi p	12	1
K.Hymavathi p	12	1
S.Krishna Priya	11	2
P.Nandini	12	1
N.Prassanna	13	nil
J Lavanya	11	2

K. Vijaya Kumar
27/3/19

PROFESSOR & HEAD
DEPARTMENT OF BIOCHEMISTRY
GUNTUR MEDICAL COLLEGE
GUNTUR.

Internship at Govt. General Hospital

- Date** 3rd Jan 2019 to 9th Feb 2019 (Every Thurs, Fri, Sat)
- Dept. Initiated** Dept. of Biochemistry
- Location:** Dept. of Clinical Biochemistry, Microbiology & Pathology at Govt. General Hospital, Guntur.
- Beneficiaries :** The students of III B.Sc Biochemistry.
A total of 17 students benefitted from this internship.
- Objectives :**
- ✚ To understand the subject practically.
 - ✚ To get practical exposure from the subject experts in the field.
 - ✚ To have work experience at the field
 - ✚ To cultivate discipline & other values among the students
 - ✚ To face real life challenges and to act accordingly.
- Description :** The Govt. general Hospital, Guntur is among the renowned Hospital in the area serving millions of people. It is famous for diagnostics & treatment.
As per the BoS, we have “Clinical Biochemistry & Microbiology” in the VI semester. Hence to enable the students to have good practical exposure in the concerned subject, we are linked with GGH, Guntur, which offers Internships to students in the concerned subject.
Every day, students used to attend the department from 9am onwards punctually. An attendance register was maintained by the hospital to monitor them. Students were grouped and allotted to work at Sample collection, Clinical Biochemistry, Clinical Microbiology & pathology. There the students learned techniques like Collecting pathogenic samples with utmost care.
Total count, Differential count, Hb, Creatine, blood sugar, Liver function tests, Kidney function tests etc
- Outcomes :** Students could understand theory through practical approach.
Able to learn different techniques
Dealing with the patients
Safety precautions while handling the samples.

**List of Final Year BSc Biochemistry Students for project work- internship
(2018-19) at Govt. General Hospital, Guntur**

The following students of III year B.Sc Biochemistry from Govt. College for Women (A), Guntur had done their internship from 3-1-19 to 9-2-19 (3days in a week) at Clinical Biochemistry & Microbiology Departments of Govt. General hospital, Guntur. They attended regularly and performed the assigned tasks sincerely.

S.No	Regd no	Name Of The Students	Program
1.	16404006	E. Yamuna	404
2.	16404011	P. Naga Lakshmi	404
3.	16404012	P. Roja	404
4.	16404014	V. Sowjanya	404
5.	16404015	K. Neelima	404
6.	16404018	D. Usha Rani	404
7.	16405001	K. Devayani	405
8.	16405002	N. Narayanamma	405
9.	16405003	B. Prameela	405
10.	16405005	A. Mani	405
11.	16405010	G. Sukanya	405
12.	16405012	H. Mahalakshmi	405
13.	16405017	K. Hymavathi	405
14.	16405023	S. Krishna Priya	405
15.	16405027	P. Nandini	405
16.	16407002	N. Lakshmi Prasanna	407
17.	16407009	J. Lavanya	407

STUDENT INTERNSHIP at TULASI SEEDS PVT LTD, Ameenabad, Guntur

During 2017-18

The purpose of internship is to expose students to real work environment and at the same time, to gain the knowledge through hands on observation. This practical training program allows students to relate theoretical knowledge with its application in the industry.

The Objectives Of Internship Are:

- To develop skills in the application of theory to practical work situations.
- To develop skills and techniques directly applicable to their careers.
- To expose students to real work environment experience gain knowledge in writing report in technical works/projects.

Duration of internship: 25-04-17 to 10-06-17

Beneficiaries of the Program- 3 students from II B.Sc Biochemistry

Location: R & D department: Tulasi Seeds Pvt Ltd, Ameenabad, Guntur

Description : The **Tulasi Seeds Pvt Ltd**, Guntur is among the renowned industry in the area serving millions of farmers. It is famous for providing quality in the BT-cotton seed industry which have been approved by the Govt. of India, New Delhi for commercial cultivation and these BG II / BT hybrids are showing excellent performance in farmers' fields.

Department of Biochemistry is offering Molecular Biology & Genetic Engineering in the V & VI semester. Hence to enable the students to have good practical exposure in the concerned topics, we are linked with **Tulasi Seeds Pvt Ltd**, Guntur, which offers Internships to students in the concerned subject.

The students were sent to R & D division during summer vacation as they can attend the lab in full time which allowed the scientist to have attention on students and to involve students in real work. The right time for the real work.

There the students learned various techniques of molecular biology used in the current research.

Title of the Project work: *Estimation of Bt Gene and Bt protein In Tulasi Cotton Hybrid Seeds By ELISA And PCR Screening*

Aim: The aim of the project is to identify the Bt gene and Quantify the Bt protein in two different Tulasi Bt cotton hybrids TCS-4 and TCHH-25. This involves isolation of the DNA from the hybrids and amplifying the Bt gene by PCR amplification and testing the zygosity of the Bt gene in the plant hybrid using Gel Electrophoresis.

Objectives:

- + To standardized qualitative ELISA for the detection of Bt protein.
- + To isolate DNA from hybrid Bt cotton seeds.
- + To perform PCR for amplification of isolated DNA.
- + To standardized Gel electrophoresis for the detection of the Zygosity.

List of students attended internship

S.No	Reg No	Student Name	Program
1	15407002	V. Naga Indraja	407
2	15407009	R. Anusha	407
3	15407010	Sk. Haseena	407

Outcomes :

- + Students could understand theory through practical approach.
- + Able to learn different techniques of molecular biology used in the current research
- + Safety precautions while handling the chemicals and instruments.



TULASI SEEDS

25 APR 2017

To
Dr L. Sasibala, M.A., Ph.D.,
Principal, Govt. College For Women,
Guntur.

Respected Madam,

Sub: Proposal for Linkage with Depts of Biotechnology, Microbiology & Biochemistry, Govt.
College for Women, Guntur- Reg


We M/s Tulasi Seeds Pvt. Ltd., Guntur ready to offer internship to the students for a period for one month study on Recombinant DNA technology, Molecularbiology, Immunology and Bio-analytical techniques 4 members each course. We will be arranging a field trip if feasible otherwise in our R & D and Green House the training will be carried out.

It is to inform you that we will not be paying any stipend or any other allowance for the above during the internship to any of the participants.

Please forward the schedule for the trainee as mentioned.

Thanking You,

Yours Sincerely,


(T. Yogish Chandra)
Managing Director



PRACHANDA
BHASKAR BG II



TAAKATH BG II



SURYA BG II



SRI TULASI BG II



SOURAV BG II



BHASKAR BG II



LOTUS BG II



UJWAL BG II



TULASI SEEDS

Ref :TSPL/ 42/2017-18

Date:23rd June 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. V.Naga Indraja has done the internship at our Tulasi Biotechnology Research Laboratory from 28th April 2017 to 30th May 2017. She has done the internship titled "Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR screening and Elisa Testing" under the guidance and supervision of our senior breeder(cotton) & R&D Incharge Mr. A.Balakrishnan., M.Sc(Ag). She is sincere, hard working and keen to learn new techniques of molecular biology.

T.Yogish Chandra
Managing Director .

A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D Incharge.

Regd. Office : Tulasi House, # 6-4-6, Arundelpet 4/5, Guntur 522 002, AP, INDIA, ☎ +91-863-2223254, www.tulasiseeds.com



ఉజ్వల్
సూపర్ ప్రతి విత్తనాలు
అధిక దరియి --- అధిక లాభాలు

TULASI
Ujwal
COTTON SEEDS
High Yielding - High Profits



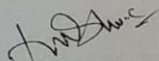
TULASI SEEDS

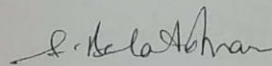
Ref :TSPL/ 42/2017-18

Date:23rd June 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. V.Naga Indraja has done the internship at our Tulasi Biotechnology Research Laboratory from 28th April 2017 to 30th May 2017. She has done the internship titled "Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR screening and Elisa Testing" under the guidance and supervision of our senior breeder(cotton) & R&D Incharge Mr. A.Balakrishnan., M.Sc(Ag). She is sincere, hard working and keen to learn new techniques of molecular biology.


T.Yogish Chandra
Managing Director .


A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D Incharge.

Received Copy
V.Naga Indraja.
11/7/17

Regd. Office : Tulasi House, # 6-4-6, Arundelpet 4/5, Guntur 522 002, AP, INDIA, ☎: +91-863-2223254, www.tulasiseeds.com



TULASI SEEDS

Ref :TSPL/ 43/2017-18

Date:23rd June 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Shaik Haseena has done the internship at our Tulasi Biotechnology Research Laboratory from 28th April 2017 to 30th May 2017. She has done the internship titled "Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR screening and Elisa Testing" under the guidance and supervision of our senior breeder(cotton) & R&D Incharge Mr. A.Balakrishnan., M.Sc(Ag). She is sincere, hard working and keen to learn new techniques of molecular biology.

T.Yogish Chandra
Managing Director

A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D Incharge.

Received copy Shaik Haseena
17/17



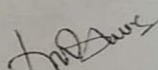
TULASI SEEDS

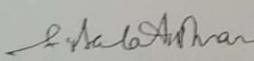
Ref :TSPL/ 40/2017-18

Date:23rd June 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. R.Anusha has done the internship at our Tulasi Biotechnology Research Laboratory from 28th April 2017 to 30th May 2017. She has done the internship titled "Determination of Bt gene and Bt protein in Tulasi Cotton hybrids by PCR screening and Elisa Testing" under the guidance and supervision of our senior breeder(cotton) & R&D Incharge Mr. A.Balakrishnan., M.Sc(Ag). She is sincere, hard working and keen to learn new techniques of molecular biology.


T.Yogish Chandra
Managing Director .


A.Balakrishnan M.Sc(Ag.)
Sr. Breeder (Cotton) & R&D Incharge.

Received copy

R. Anusha
1/7/17

Regd. Office : Tulasi House, # 6-4-6, Arundelpet 4/5, Guntur 522 002, AP, INDIA. ☎ +91-863-2223254, www.tulasiseeds.com