

## REPORT ON INTERNSHIP PROGRAMME

Duration : May 4<sup>th</sup> to May 25<sup>th</sup> 2016

Institution : **Jawaharlal Nehru Tropical Botanic Garden and Research  
Institute (JNTBGRI), Palode, Trivandrum**

Student : Indu .M

Program : MSc. Botany , Sacred Heart College ,Thevara

Department in which  
internship is conducted : Division of Biotechnology and Bioinformatics, JNTBGRI

Name of the supervisor : Dr. C .G .Sudha



# Jawaharlal Nehru Tropical Botanic Garden and Research Institute

(An Institute of Kerala State Council for Science, Technology and Environment, Govt. of Kerala, National Centre of Excellence, Govt. of India)  
Karimancode P. O., Palode, Thiruvananthapuram - 695 562, Kerala, India.

## CERTIFICATE

This is to certify that Indu M , M.Sc. Botany (Semester III) student of Sacred Heart College, Thevara, Kochi, has undergone two weeks training programme in the Biotechnology and Bioinformatics Division of Jawaharlal Nehru Tropical Botanical Garden and Research Institute JNTBGRI, Trivandrum with the following details:


Attendance		
Duration	Leave Availing Details	Total days attended
4 <sup>th</sup> May-25 <sup>th</sup> May	Nil	15

Techniques/ Ability Acquired
1. Basic techniques on Plant Tissue Culture (Shoot culture initiation , Subculture and Root initiation ) , Study material: <i>Bacopa monnieri</i> (L.) Wettst.
2. Transgenic root culture initiation using <i>Agrobacterium rhizogenes</i> and maintenance of hairy root culture , Study material: <i>Withania somnifera</i> (L.) Dunal
3. Molecular Biology ( DNA Extraction , Demonstration of PCR machines )
4. Cryopreservation Lab Exposure (Seed storage in Liquid Nitrogen )
5. Commercial Production using Tissue Culture - Lab Exposure ( Autoclave, Media dispensing machine Air -flow Cabinets ,RO water Production Unit, Culture room ) used for commercial scale propagation of Banana, Anthurium, Orchids and Pepper)

Given on the 26<sup>th</sup> day of May 2016

Name of Mentor: Dr C G Sudha

Signature:

  
Dr. C.G. Sudha  
Scientist & Head  
Biotechnology & Bioinformatics Division  
JNTBGRI, Palode, Thiruvananthapuram

Name of Ho D: Dr. C. G Sudha

Signature:

