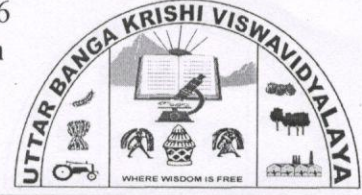


UTTAR BANGA KRISHI VISWAVIDYALAYA
P.O.-PUNDIBARI, DIST.-COOCH BEHAR, WEST BENGAL-736165

Phone: 03582-270987(O), Fax: 035852-270246
M: 9932395544, E-mail:ubkvdr@gmail.com



Prof. Ashok Choudhury
Director of Research

Ref. No.: UBKV/DR/ 82

Date:10.05.2022

Letter of Engagement

As per recommendation of the Selection committee, **Mr. Durgadatta Meher**, Son of Sri, Ramesh Chandra Meher, Patnagarh city, P.o. Jogimunda, Ps. Patnagarh, Dist. Balangir, Odisha-767027, has been selected for the post of **Junior Research Fellow** under the project entitled, "**Long term and midterm development programme and strategies for strengthening the value chain of Directorate of Cinchona and other Medicinal Plant**" funded by **Directorate of Cinchona and other Medicinal Plant (DCOMP), Govt. of West Bengal** on the following terms and conditions.

1. **Mr. Meher will receive consolidated monthly Fellowship of Rs. 18000/- (Rupees eighteen thousand only) per month and he will be under the control of Prof. Ashok Choudhury, Principal Investigator & Director of Research or any other Scientist under the project. He has to obey the instruction of the controlling officer.**
2. The post is purely temporary and coterminous with the project and the incumbent shall have no claim for other benefit or any other post / position or further studies, what so ever, in the university / other project in the event of termination of the project.
3. For the project work, he may have to work beyond official working hours and he has to go to other places and stay outside Kalimpong for a specified period as to be instructed by the controlling officer or any other designed scientist of the project.
4. The engagement is purely temporary for an initial period of six months. Extension may be given, if his performance is found to be satisfactory and if the funding agency extends the duration of the project.
5. The incumbent will be served a notice of termination of engagement one month in advance in case of his non-satisfactory performance / completion of duration as the case may be.

If the above terms and conditions are acceptable, Mr. Meher is hereby requested to report to the Director of Research, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar.

To
Mr. Durgadatta Meher,
Son of Sri, Ramesh Chandra Meher,
Patnagarh city, P.o. Jogimunda,
Ps. Patnagarh, Dist. Balangir, Odisha-767027

Sd/-
Director of Research

Ref. No. UBKV/DR-81 (5), Date: 10.05.2022

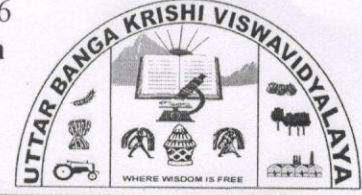
Copy for information and necessary action to:

1. Dr. Moumita Chakraborty, Assistant Professor, Genetics and Plant Breeding, UBKV Pundibari.
2. Dr. Nandita Sahana, Assistant Professor, Biochemistry, UBKV Pundibari
3. In-Charge, Comptroller's Department, UBKV, Pundibari
4. Registrar, UBKV, Pundibari.
5. Office Copy, Director of Research, UBKV, Pundibari.

[Handwritten signature]
10.5.22

UTTAR BANGA KRISHI VISWAVIDYALAYA
P.O.-PUNDIBARI, DIST.-COOCH BEHAR, WEST BENGAL-736165

Phone: 03582-270987(O), Fax: 035852-270246
M: 9932395544, E-mail:ubkvdr@gmail.com



Prof. Ashok Choudhury
Director of Research

Ref. No.: UBKV/DR/ 82

Date:10.05.2022

Letter of Engagement

As per recommendation of the Selection committee, **Mr. Durgadatta Meher**, Son of Sri, Ramesh Chandra Meher, Patnagarh city, P.o. Jogimunda, Ps. Patnagarh, Dist. Balangir, Odisha-767027, has been selected for the post of **Junior Research Fellow** under the project entitled, "Long term and midterm development programme and strategies for strengthening the value chain of Directorate of Cinchona and other Medicinal Plant" funded by Directorate of Cinchona and other Medicinal Plant (DCOMP), Govt. of West Bengal on the following terms and conditions.

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2. The post is purely temporary and coterminous with the project and the incumbent shall have no claim for other benefit or any other post / position or further studies, what so ever, in the university / other project in the event of termination of the project.
3. For the project work, he may have to work beyond official working hours and he has to go to other places and stay outside Kalimpong for a specified period as to be instructed by the controlling officer or any other designed scientist of the project.
4. The engagement is purely temporary for an initial period of six months. Extension may be given, if his performance is found to be satisfactory and if the funding agency extends the duration of the project.
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If the above terms and conditions are acceptable, Mr. Meher is hereby requested to report to the Director of Research, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar.

10.5.22
Director of Research

Director of Research
Uttar Banga Krishi Viswavidyalaya
Pundibari, Cooch Behar

To
Mr. Durgadatta Meher,
Son of Sri, Ramesh Chandra Meher,
Patnagarh city, P.o. Jogimunda,
Ps. Patnagarh, Dist. Balangir, Odisha-767027



भारतीय प्रौद्योगिकी संस्थान दिल्ली
INDIAN INSTITUTE OF TECHNOLOGY DELHI
हौज खास, नई दिल्ली - 110 016, Hauz Khas, New Delhi - 110 016
दूरभाष/Tel. : (011) 2659-1717/7205/1716, फ़ैक्स/Fax : (011) 2659-7216
E-mail : ar_e1@admin.iitd.ac.in, are1@admin.iitd.ac.in • Website : www.iitd.ac.in

ESTABLISHMENT SECTION - I

BY SPEED POST

No. IITD/IES1/2022/32088
Date: 21/04/2022

Mr. Krishanu Ganguly

B-26/208 UCIL COLONY EAST SINGHBHUM JADUGUDA Union office block
Jaduguda
Jharkhand, India 832102
krishanuganguly5@gmail.com

Subject:- Offer of appointment to the post of Post Doctoral Fellow in the Department of Mechanical Engineering.

Dear Sir/Madam,

Kindly refer to your application dated 29-12-2021 for appointment to the post of Post Doctoral Fellow at this Institute.

On the basis of the recommendations of the Standing Selection Committee which considered your candidature at its meeting held on 04-03-2022, you have been selected as Post Doctoral Fellow in the Department of Mechanical Engineering by the Competent Authority for a period of one year. It is my privilege to send you this letter which will be subject to the following terms and conditions:-

1. **Post:**

The fellowship is for a period of One year from the date of joining, which can be extended for one more year.

2. **Pay and allowances:**

- Consolidated amount of Fellowship of Rs. 75000/- (Seventy Five Thousand Only) per month.
- No Institute accommodation will be provided. In lieu of Institute accommodation, 27% HRA on fellowship will be paid.

3. **Leave:**

Leave @ 2 ½ days per every completed calendar month. No leave encashment or carry forward is permissible on the termination of the awardee period. Post Doctoral Fellows are not regular employees of the Institute, and therefore, no other leave will be admissible. However, in special cases such as medical, additional leave may be granted based on the merit of the case.



4. **Medical Examination:**

A Medical certificate as per the format attached at Annexure-I be submitted at the time of joining. This can be obtained from any Govt./Semi Government Hospitals in India.

Further, those who have already been working in Govt. or Semi Govt. Department and relieved through proper channel to join this Institute are exempted from undergoing fresh medical examination at this Institute but are required to produce an attested copy of medical fitness certificate from their previous employer, at the time of joining this Institute.

5. **Character Certificate:**

At the time of joining the Institute a Character Certificate from a competent authority or a responsible person will be required. Prescribed form is enclosed (Annexure-II). The candidates residing abroad may produce a character certificate from the Chairman/Head of the Deptt. in which they are working at present.

6. **Termination of service:**

During the period of fellowship, your fellowship is liable to termination with one month's notice in writing given by either side.

7. **Permanent absorption:**

There will be no claim whatsoever for appointment/regularisation against any regular post or any vacancy arising in future in this cadre/post on the basis of this service.

8. **Medical Attendance and Treatment :**

You may opt for OPD facilities for self against the monthly payment of Rs. 1,000/-. You will be required to take medical insurance coverage of Rs. 2.00 Lakhs for self at your own expenses(to be submitted along with joining report).

9. At the time of your joining, the following certificates in original (with attested copies) have to be produced for verification and return :

(a) SSLC or School Certificate in proof of Date of Birth

(b) Certificates relating to educational, technical qualifications and previous services, if any.

(c) In addition, you are requested to submit a declaration that you are not under Bond or Agreement or under obligation to serve the Central Govt., a State Govt., University or a Public Authority/Undertaking, Institution.

(d) Medical Insurance Certificates of Rs. 2.00 Lakh for self (Refer to point No. 8)




10. **General:**

(i) The PDA of Rs. 1.00 lakh per financial year (April-March) from the date of joining in the Institute. PDA is apportioned @ 25,000/- every quarter from the date of joining. PDA not availed in the previous financial year will be carried forward to the next financial year (as per BG/21/2019). Utilization of PDA is restricted to attending conference (both national and International).

(ii) In addition to research work, a Post Doctoral Fellow is also expected to contribute to some teaching activities of the concerned academic unit to the extent of about 20% of his/her time. This could involve spending time in teaching laboratories and/or tutorial delivery.

(iii) All other terms and conditions of service and rules of discipline and conduct as contained in the Institute Statutes and any other rules framed thereunder or otherwise shall be applicable. You are requested to communicate your acceptance to this offer immediately and report for duty at this Institute as early as possible but within 3 months from the date of issue of this letter. Please sign and return the duplicate copy of this letter to the undersigned in token of your acceptance of the offer. **Those who are already in Government service are required to produce relieving order.**

Yours faithfully,


(Dr. Kalyan Kr. Bhattacharjee)
Joint Registrar (E-I)

Copy to :

1. ✓ Head, Department of Mechanical Engineering
2. Deputy Registrar/Assistant Registrar (Accounts)
3. Estate Officer

ACCEPTANCE

I accept the offer of appointment under the terms and conditions stated above. I plan to join the Institute on

Signature

Place:

Date:

Certificate

Mr **Nitesh Dhar Badgayan** from **India**

Programme: 22-BS-IN-F1

has completed a training in **Building Systems Automation** consisting of 2 parts

Contents Part 1 (blended learning with online support) from April 25 – May 13, 2022

- Photovoltaic Basics
- Global Warming
- Sources / Databases for Solar Planning
- Vocational Education System, Action based Training, Moodle Course Creation

Contents Part 2 (face-to-face training) from May 23 – June 17, 2022

- Building Automation
- Renewable Energy Fundamentals
- Photovoltaic Systems, Standalone Systems, Energy Storage Systems
- Lesson Development, Instructional Media, Instructional Methods
- Gender and TVET
- Introduction to the Dual System of Vocational Training in Germany

Field Visits:

- Didacta in Cologne – Educational Fair
- Handicraft Company Franz Bangert Mannheim - (the role of the handicraft sector in the Dual System)
- The Role of the Industry in the Dual System (Mr. M. Braunert, former manager of ABB- ATC Vocational Training Department, Heidelberg - lecture with videos)
- BiA – Bildungsakademie Mannheim - (the role of the chambers and the intercompany training in the Dual System)
- Company Alexander Bürkle, Flörsheim-Weilstadt (Smart Home – Mr. Scholz, lecture with Show Room)

Groß-Gerau, June 17, 2022


Martin Gonnermann

Principal



IC/7/2022-ICT
Government of India
Ministry of Skill Development & Entrepreneurship

2nd Floor, PTI Building,
Sansad Marg, New Delhi
Dated: 13th April, 2022

Office Memorandum

Subject: List of 36 Nominations for Bund-Länder-Program (BLP) Germany – reg

The undersigned is directed to refer to the subject cited above and to state that Ministry of Skill Development & Entrepreneurship (MSDE) has collaborated with The Ministry of Economic Cooperation and Development (BMZ) for the Bund-Länder-Programme (BLP), which is being implemented by GiZ. The BLP program consists of capacity building program for Training of Trainers (ToT) for 36 participants, who will be trained in three batches of twelve members each.

2. The three batches comprise of two technical batches (Batch 1 and Batch 2) and one non-technical women only batch (Batch 3). The training durations for the aforementioned ToT batches are appended in Annexure A.

3. In order to attend the onsite training, candidates will be travelling to Germany in three batches of twelve each, as per the schedule mentioned in Annexure A.

4. Accordingly, the final list of 36 candidates, who will be travelling to Germany on the aforementioned dates, is appended at Annexure B and is forwarded to the Department of Economic Affairs for taking necessary action on this matter.

5. GiZ shall further process & obtain any undertakings or documents from the candidates before the final departure. Individual candidates shall be responsible for all interaction including sharing information with Visa authorities in due compliance to standard process. A general guideline shall also be issued by GiZ with mention of travel & training instructions.

6. GiZ has requested to facilitate using of personal passport for the travel and the request may please be considered as per the norms.

7. This issues with the approval of the Competent Authority.


13/04/22

(Sanchay Bapat)
Assistant Director (IC)
Government of India
Tel.no. 011-23465905

Encl. as above.

To,
Shri Ashish Sharma, Under Secretary (G&F)
Department of Economic Affairs
Ministry of Finance
North Block, New Delhi
(Email: ashish.sharma70@nic.in)

Copy for information to:

1. Ms. Sakshi Chawla, Senior Advisor, GiZ
2. Sh. Sanjay Kumar, Director (Projects), DGT, MSDE.

Sanjay
13/04/22

Annexure A

Batch 1	
Training Duration	7 weeks (3 weeks online training + 4 weeks onsite training in Germany)
Training Dates	Online Training: 24 th April 2022 to 14 th May 2022 Onsite Training: 22 nd May-18 th June 2022 (incl. travel days)
Total Candidates	12
Batch 2	
Training Duration	7 weeks (3 weeks online training + 4 weeks onsite training in Germany)
Training Dates	Online Training: 24 th April 2022 to 14 th May 2022 Onsite Training: 4 th September-1 st October 2022
Total Candidates	12
Batch 3 (Women Candidates Only)	
Training Duration	2 weeks of onsite training in Germany
Training Dates	15 th May 2022 – 28 th May 2022 (including travel days)
Total Candidates	12

Bankey
13/04/22

Annexure B

BLP Batch 1 : List of 12 Candidates

S.No	Name	Permanent State / Central Govt. employee /SSC/ Industry	10-15 years of work experience	Healthy and fit for long travelling for regular field visits	Willing to implement few learnings on ground	Good knowledge of English language
1	Ms.Pratibha Mishra	Construction Sector Skill council	14	YES	YES	Good
2	Ms.Sipalin Nayak	Centurion University Odisha	10	YES	YES	Good
3	Dr Lalit Kumar	Vishwakarma Skill University	11	YES	YES	Good
4	Mr.Ranjit Kumar Singh	Bihar DVET	15	YES	YES	Good
5	Mr.Anoop Bhardwaj	Haryana	22	47	YES	Good
6	Ms. Pooja R Singh	Karnataka NSTI	15	YES 38	YES	Good
7	Mr.Aatishkumar Shivdas Wase	Maharashtra DVET	13	YES 36	YES	Good
8	Mr.Dhananjay	Odisha State	12	YES 43	YES	Good
9	Mr.P.T Naushad	Tamil nadu	23	YES 45	YES	Good
10	Mr.Vivek Kumar	Uttarpradesh State	8	YES	YES	Good
11	Mr.Mohini Mohan Pal/	West Bengal State	20	YES 50	YES	Good
12	Mr.Montu Ram Mehato	Jharkhand	20	YES 46	YES	Good

Sanjay
19/04/22

BLP Batch 2 : List of 12 Candidates

S.No	Name	Permanent State / Central Govt. employee /SSC/ Industry	10-15 years of work experience	Healthy and fit for long travelling for regular field visits	Willing to implement few learnings on ground	Good knowledge of English language
1	Mr.Amresh Kumar	Construction Sector Skill council	9+	YES	YES	Good
2	Mr.Ajinkya Bawase	Feynman Innovations Private Limited	17	YES	YES	Good
3	Ms.Hemlata Joshi	Delhi DTTE	25	YES 50	YES	Good
4	Mr.Vijay Ramesh Metkar	L&T Skill Trainers Academy	15	YES	YES	Good
5	Mr.Vikas Raj	Himachal Pradesh	11	YES 31	YES	Good
6	Mr.Jayant Paul	Telangana NSTI	10.6	YES 39	YES	Good
7	Mr.Thomas Vebin K M	Kerala	20.5	YES 41	YES	Good
8	Mr.Thoudam Bideswar Singh/	Manipur State	17	YES 48	YES	Good
9	Mr.D. Mahaboob Basha	Maharashtra NSTI	16	YES 40	YES	Good
10	Mr. Ram Niwas	CI Electrician, ITI Pusa	30	50	Yes	Yes
11	Ms. S Priya	Telangana NSTI	15	39	Yes	Good
12	Dr.Nitesh Dhar Badgayan	Centurion University Odisha	8+	31	Yes	Good

Bahay
13/04/22

Batch 3 : Final List (12 Women Candidates)

S.No	Name	Permanent State / Central Govt. employee	10-20 years of work experience	Healthy and fit for long travelling for regular field visits	Willing to implement few learnings on ground	Good knowledge of English language
1	Ms. Nayana Mallapurkar	<i>The University of Trans-Disciplinary Health Sciences and Technology (TDU). A State University Establishes by Karnataka Act 35 of 2012</i>	22	48	Yes	Yes
2	Ms Chanchal Bhardwaj	<i>Shri Vishwakarma Skill University</i>	20	48	Yes	Yes
3	Maj. Sonali Kadam	<i>Symbiosis Center of Distance Learning</i>	19	42	Yes	Yes
4	Ms.Jassi Dimple	Medhavi Skills University Sikkim	27	49	Yes	Yes
5	Mrs. Meenu Sarawgi	ASDC	18	42	Yes	Yes
6	Ms. Kasturi Bharali,	Assam- 1	28	51	Yes	Yes
7	Ms. Rubina Parveen,	Karnataka- 1 DET	14	39	Yes	Yes
8	Ms. Kavadi Jhansi	Andhra Pradesh DET	19	40	Yes	Yes
9	Ms. Mahananda K. Kante,	Maharashtra RDSDE -2	14	35	Yes	Yes
10	Ms. Nikita Bengani	Quest Alliance	15	39	Yes	Yes
11	Dr. Abhilasha Gaur	ESCI	19	50	Yes	Yes
12	Ms. Sarika Dixit	NCVET				

Alakay
13/04/22



Certificate

Sipalin Nayak [22-GS-IN-02] from India

Programme No: 22-GS-IN01/02

successfully completed the online training part **RET-Basics-PV** of a blended learning programme in

Subject **Building System Technology**

Duration April 25th – May 6th, 2022

Contents:

- Global warming
- Photovoltaics: physical and technical basics
- Use of online simulation tools
- Using training systems for PV in class
- Principle of stand-alone systems
- Online irradiation data bases

Groß-Gerau, 13 May 2022

This certificate was created by machine and is valid without any signature



IC/7/2022-ICT
Government of India
Ministry of Skill Development & Entrepreneurship

2nd Floor, PTI Building,
Sansad Marg, New Delhi
Dated: 13th April, 2022

Office Memorandum

Subject: List of 36 Nominations for Bund-Länder-Program (BLP) Germany – reg

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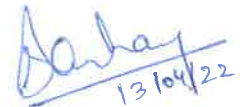
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6. GiZ has requested to facilitate using of personal passport for the travel and the request may please be considered as per the norms.

7. This issues with the approval of the Competent Authority.


13/04/22

(Sanchay Bapat)
Assistant Director (IC)
Government of India
Tel.no. 011-23465905

Encl. as above.

To,
Shri Ashish Sharma, Under Secretary (G&F)
Department of Economic Affairs
Ministry of Finance
North Block, New Delhi
(Email: ashish.sharma70@nic.in)

Copy for information to:

1. Ms. Sakshi Chawla, Senior Advisor, GiZ
2. Sh. Sanjay Kumar, Director (Projects), DGT, MSDE.

Sanjay
13/04/22

Annexure A

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Total Candidates	12
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Training Duration	7 weeks (3 weeks online training + 4 weeks onsite training in Germany)
Training Dates	Online Training: 24 th April 2022 to 14 th May 2022 Onsite Training: 4 th September-1 st October 2022
Total Candidates	12
Batch 3 (Women Candidates Only)	
Training Duration	2 weeks of onsite training in Germany
Training Dates	15 th May 2022 – 28 th May 2022 (including travel days)
Total Candidates	12

Bankey
13/04/22

Annexure B

BLP Batch 1 : List of 12 Candidates

S.No	Name	Permanent State / Central Govt. employee /SSC/ Industry	10-15 years of work experience	Healthy and fit for long travelling for regular field visits	Willing to implement few learnings on ground	Good knowledge of English language
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2	Ms.Sipalin Nayak	Centurion University Odisha	10	YES	YES	Good
3	Dr Lalit Kumar	Vishwakarma Skill University	11	YES	YES	Good
4	Mr.Ranjit Kumar Singh	Bihar DVET	15	YES	YES	Good
5	Mr.Anoop Bhardwaj	Haryana	22	47	YES	Good
6	Ms. Pooja R Singh	Karnataka NSTI	15	YES 38	YES	Good
7	Mr.Aatishkumar Shivdas Wase	Maharashtra DVET	13	YES 36	YES	Good
8	Mr.Dhananjay	Odisha State	12	YES 43	YES	Good
9	Mr.P.T Naushad	Tamil nadu	23	YES 45	YES	Good
10	Mr.Vivek Kumar	Uttarpradesh State	8	YES	YES	Good
11	Mr.Mohini Mohan Pal/	West Bengal State	20	YES 50	YES	Good
12	Mr.Montu Ram Mehato	Jharkhand	20	YES 46	YES	Good

Sanjay
19/04/22

BLP Batch 2 : List of 12 Candidates

S.No	Name	Permanent State / Central Govt. employee /SSC/ Industry	10-15 years of work experience	Healthy and fit for long travelling for regular field visits	Willing to implement few learnings on ground	Good knowledge of English language
1	Mr.Amresh Kumar	Construction Sector Skill council	9+	YES	YES	Good
2	Mr.Ajinkya Bawase	Feynman Innovations Private Limited	17	YES	YES	Good
3	Ms.Hemlata Joshi	Delhi DTTE	25	YES 50	YES	Good
4	Mr.Vijay Ramesh Metkar	L&T Skill Trainers Academy	15	YES	YES	Good
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6	Mr.Jayant Paul	Telangana NSTI	10.6	YES 39	YES	Good
7	Mr.Thomas Vebin K M	Kerala	20.5	YES 41	YES	Good
8	Mr.Thoudam Bindeswar Singh/	Manipur State	17	YES 48	YES	Good
9	Mr.D. Mahaboob Basha	Maharashtra NSTI	16	YES 40	YES	Good
10	Mr. Ram Niwas	CI Electrician, ITI Pusa	30	50	Yes	Yes
11	Ms. S Priya	Telangana NSTI	15	39	Yes	Good
12	Dr.Nitesh Dhar Badgayan	Centurion University Odisha	8+	31	Yes	Good

Bahay
13/04/22

Batch 3 : Final List (12 Women Candidates)

S.No	Name	Permanent State / Central Govt. employee	10-20 years of work experience	Healthy and fit for long travelling for regular field visits	Willing to implement few learnings on ground	Good knowledge of English language
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2	Ms Chanchal Bhardwaj	<i>Shri Vishwakarma Skill University</i>	20	48	Yes	Yes
3	Maj. Sonali Kadam	<i>Symbiosis Center of Distance Learning</i>	19	42	Yes	Yes
4	Ms.Jassi Dimple	Medhavi Skills University Sikkim	27	49	Yes	Yes
5	Mrs. Meenu Sarawgi	ASDC	18	42	Yes	Yes
6	Ms. Kasturi Bharali,	Assam- 1	28	51	Yes	Yes
7	Ms. Rubina Parveen,	Karnataka- 1 DET	14	39	Yes	Yes
8	Ms. Kavadi Jhansi	Andhra Pradesh DET	19	40	Yes	Yes
9	Ms. Mahananda K. Kante,	Maharashtra RDSDE -2	14	35	Yes	Yes
10	Ms. Nikita Bengani	Quest Alliance	15	39	Yes	Yes
11	Dr. Abhilasha Gaur	ESCI	19	50	Yes	Yes
12	Ms. Sarika Dixit	NCVET				

Alakay
13/04/22



Registrar Office CUTM <regoff@cutm.ac.in>

Fwd: Sanction Order : TAR/2021/000258

1 message

Dr. Pushpalatha G. <pushpalathag@cutm.ac.in>
 To: Registrar Office CUTM <regoff@cutm.ac.in>
 Cc: Registrar CUTM <registrar@cutm.ac.in>

Sat, Mar 12, 2022 at 9:13 PM

Dear Sir/Madam,
 FYI

----- Forwarded message -----

From: <SERB_Administrator@serbonline.in>
 Date: Tuesday, February 15, 2022
 Subject: Sanction Order : TAR/2021/000258
 To: serbinfo1@gmail.com



Science and Engineering Research Board
 (Statutory Body Established Through an Act of Parliament : SERB Act 2008)
 Department of Science and Technology, Government of India

Dear Dr. Pushpalatha Ganesh,

The below details for **Science & Engineering Research Board (SERB)** Sanction Order (*attached to this mail*)

Sanction Order No TAR/2021/000258
Sanction Date 03 February, 2022
PI Name Dr. Pushpalatha Ganesh
Institute/University Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211
Account Number 1426100100000991
Bank & Branch Name PUNJAB NATIONAL BANK ARAGUL JATANI R C BAZAR IN FRONT OF DAMANEI MANDIR ARAGUL JATANI KHURDA-752050
Amount INR 275000/-
In Rupees Two Lakh Seventy Five Thousand
UTR No RBI0432204121763
Transaction Date 11 February, 2022

SERB Reference Number:

Bill No
 Diary No / Finance No SERB/F/7987/2021-2022

Sanction Order No TAR/2021/000258
Sanction Date 03 February, 2022
PI Name Dr. Pushpalatha Ganesh
Institute/University Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211
Account Number 38574672149
Bank & Branch STATE BANK OF INDIA MOHALI SCO 35 PHASE-I SAS NAGAR MOHALI

Name
Amount **INR 335000/-**
In Rupees **Three Lakh Thirty Five Thousand**
UTR No RBI0432204121860
Transaction Date 11 February, 2022

SERB Reference Number:

Bill No GIA/6678/2021-22

Diary No / Finance No SERB/F/7987/2021-2022

Confirmation of receipt of funds may be sent by **email** only.

IMPORTANT:

1. **SEPARATE Utilization Certificates (UCs) for Recurring and Non Recurring (even if DISBURSED BY SERB THROUGH ONE SANCTION ORDER** for your project) should be **sent directly** to the grant Sanctioning Authority by name (signatory of the sanction order) **within twelve months of the closure of the financial year in which the grants were released irrespective of whether the subsequent instalment of grant is due for release or not.**

2. However, if any unspent balance is to be **refunded**, kindly ensure that the unutilized amount may be refunded immediately by way of an **a/c payee cheque/DD** drawn in favour of "**Fund for Science & Engineering Research**", payable at **New Delhi** and **forwarded to the undersigned at the address given below:**

--

Under Secretary

Science & Engineering Research Board (SERB)

(A statutory body under the Government of India's Department of Science & Technology)

3rd & 4th Floor, Block II

Technology Bhavan, New Mehrauli Road
New Delhi - 110016

+91-11-40000328/9

+91-11-40000319/49/52

+91-9818223293

+91-9818223294

***** LEGAL DISCLAIMER *****

Please do not reply to this mail !!

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immediately from your system. Any unauthorized review, use, disclosure, dissemination, forwarding, printing or copying of this email or any action taken in reliance on this e-mail is strictly prohibited and may be unlawful. Internet communications cannot be guaranteed to be timely, secure, error or virus-free. The sender does not accept any liability for any errors, omissions, viruses or computer problems experienced by any recipient as a result of this e-mail.

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--
Pushpalatha G. Ph.D.

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

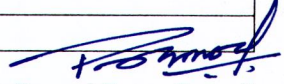
Dated: 17 December, 2021

ORDER

Subject: Research project entitled **Identification and characterization of candidate effectors from Indian brown planthopper (Nilaparvata lugens Stål / A. A. Ayl)** biotype under the guidance of Dr. Satyabrata Nanda, Department of Biotechnology, Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211.

1. In continuation of SERB's sanction order No. SRG/2021/000077 dated 17 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.1032500/-** under 'Grants-in-aid General' to Centurion University Of Technology And Management, Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 17 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debitible to Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant (General).(EC Life Sciences)
5. The Sanction has been issued with the approval of the competent authority on **14 December, 2021** and vide Diary No. **SERB/F/5339/2021-2022** dated **15 December, 2021**.
6. The release amount of **Rs. 1032500/-** (Rupees Ten Lakh Thirty Two Thousand Five Hundred only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:


PFMS Unique Code	CUTM
Account Name	Centurion University of Technology and Management
Account Number	1426100100000991
Bank Name & Branch	PUNJAB NATIONAL BANK Aragul-Jatani, R.C. Bazaar, In front of Damanei Mandir, Aragul, Jatani, Khurda-752050
IFSC/RTGS Code	PUNB0142610
Email id of A/C Holder	debasis.panda@cutm.ac.in
Email id of PI	sbn.satyananda@gmail.com


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Satyabrata Nanda Department of Biotechnology Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: sbn.satyananda@gmail.com Mobile: 918114959861 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	Registrar, Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 17 December, 2021

ORDER

Subject: Financial Sanction of the research project titled **Identification and characterization of candidate effectors from Indian brown planthopper (Nilaparvata lugens Stål/ Ā/ Ā, Ā¶I) biotype** under the guidance of Dr. Satyabrata Nanda, Department of Biotechnology, Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2654520/- (Rs. Twenty Six Lakh Fifty Four Thousand Five Hundred and Twenty Only) with break-up of Rs. 600000/- under Capital (Non-recurring) head and Rs.2054520/- under General (Recurring) head for a duration of 24 months. The items of expenditure for which the total allocation of Rs. 2654520/- has been approved are given below:

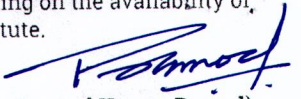
The following budget may be considered for Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Molecular grade water purification system	600000
A'	Total (Non-Recurring)	600000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	803520 1000000 10000
2	Recurring - IV : (Overhead Charges)	241000
B'	Total (Recurring)	2054520
C	Total cost of the project (A' + B')	2654520

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
- The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.
- The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project
- The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.
- The project File no. SRG/2021/000077 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

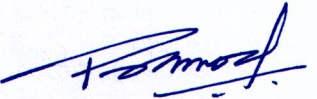
14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, Illrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	Dr. Satyabrata Nanda Department of Biotechnology Centurion University of Technology and Management , Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: sbn.satyananda@gmail.com Mobile: 918114959861 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	Registrar , Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016


Dated: 17 December, 2021

ORDER

Subject: Research project entitled **Identification and characterization of candidate effectors from Indian brown planthopper (Nilaparvata lugens Stål/ Ā/ Ā. Ā¶)** biotype under the guidance of Dr. Satyabrata Nanda, Department of Biotechnology, Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211.

1. In continuation of SERB's sanction order No. SRG/2021/000077 dated 17 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 600000/-** under 'Grants-in-aid Capital' to Centurion University Of Technology And Management, Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 17 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debitible to Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant (Capital). (EC Life Sciences)
5. The Sanction has been issued with the approval of the competent authority on **14 December, 2021** and vide Diary No. **SERB/F/5338/2021-2022** dated **15 December, 2021**.
6. The release amount of **Rs. 600000/-** (Rupees Six Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:


PFMS Unique Code	CUTM
Account Name	Centurion University of Technology and Management
Account Number	1426100100000991
Bank Name & Branch	PUNJAB NATIONAL BANK Aragul-Jatani, R.C. Bazaar, In front of Damanei Mandir, Aragul, Jatani, Khurda-752050
IFSC/RTGS Code	PUNB0142610
Email id of A/C Holder	debasis.panda@cutm.ac.in
Email id of PI	sbn.satyananda@gmail.com


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p>Dr. Satyabrata Nanda Department of Biotechnology Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: sbn.satyananda@gmail.com Mobile: 918114959861 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>Registrar, Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

FILE NO. TAR/2021/000399
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 07-Jan-2022

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to Dr. Rosy Mallik, Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211- under the mentorship of Dr. Priyabrat Dash, at National Institute of Technology, Rourkela National Institute of Technology, Sector 1, Rourkela, Odisha - 769008- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of Rs. 18,30,000/- (Rs. Rupees Eighteen Lakh Thirty Thousand only) for a duration of 36 months.

The date of start of the project will be 07 December, 2021. The items of expenditure for which the total allocation of Rs. 18,30,000/- has been approved are given below:

The following budget is proposed for

Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

National Institute of Technology, Rourkela National Institute of Technology, Sector 1, Rourkela, Odisha - 769008 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) to Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi, Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to National Institute of Technology, Rourkela National Institute of Technology, Sector 1, Rourkela, Odisha - 769008 being the first installment of the grant for the year 2021-2022 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Organic Chemistry)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/6759/2021-2022 dated 05 January, 2022

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Centurion University of Technology and Management , Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 (Parent) :

PFMS Unique Code	CUTM
Account Name	Centurion University of Technology and Management
Account Number	1426100100000991
Bank Name & Branch	PUNJAB NATIONAL BANK Aragul-JataniR.C. Bazaar, In front of Damanei Mandir, Aragul, JataniKhurda752050
IFSC/RTGS Code	PUNB0142610
Email address of PI	mallikrosy@gmail.com
Email id of A/C Holder	debasis.panda@cutm.ac.in
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

National Institute of Technology, Rourkela National Institute of Technology, Sector 1, Rourkela, Odisha - 769008 (Host) :

PFMS Unique Code	NIT 14
Account Name	NIT Rourkela - SERB
Account Number	38609735025
Bank Name & Branch	State Bank of India NIT Campus, Rourkela Odisha 769008
IFSC/RTGS Code	SBIN0002109
Email address of PI	mallikrosy@gmail.com
Email id of A/C Holder	sricce@nit.ac.in
Email id of Mentor	Dr. Priyabrat Dash

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. **TAR/2021/000399** may also be mentioned in all research communications arising from the above project with due acknowledgement of **SERB**.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "**FUND FOR SCIENCE AND ENGINEERING RESEARCH**" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to:-

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	(i) Dr. Rosy Mallik Chemistry Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: mallikrosy@gmail.com Mobile: 919777011880 (ii) Dr. Priyabrat Dash National Institute of Technology, Rourkela National Institute of Technology, Sector 1, Rourkela, Odisha - 769008 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	(i) Vice-Chancellor, Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi (ii) Director National Institute of Technology, Rourkela National Institute of Technology, Sector 1, Rourkela, Odisha - 769008 (Receipt of Grant may be intimated by name to the undersigned)


(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Approval Letter

File Number: CRG/2021/005100

Dated: 28-Jan-2022

Subject: Project titled "Study of Complete and Incomplete fusion reaction using loosely bound projectiles with medium mass Nuclei".

Dear Dr. PRASANTA KUMAR RATH,

The project cited above has been recommended by the related **Core Research Grant** to the Science and Engineering Research Board (SERB) for funding. The following are the items recommended for a period of 3 years. The final budget to be sanctioned would be based on quotations received, existing norms, funds availability etc.

Manpower :

-> **Junior Research Fellow - 1**

Equipment: Nil

Consumables : Rs. 1,50,000/- + (Target material: 2,00,000/-)

Travel Cost : As per norms

Contingencies : As per norms

Other cost: Nil

Overhead : As per norms

You need to accept the above budgetary allocation before proceeding further. To accept the budgetary recommendations , you may follow the following steps :

1. Go to www.serbonline.in through your credentials
2. Go to Menu --> Proposal submission --> View submitted proposals
3. Click on the link under Status column "Proposal Approved, Acknowledgment pending from PI"

You are requested to upload the following documents of the approved budget strictly within ten days from the date of this letter.

Upload the lowest quotation for equipment/s (including freight, insurance, customs charges etc., if any).

Salary structure for the project staff (including HRA, Medical Benefits, if applicable etc.).

A certificate stating that any visit abroad for a period more than eight weeks would be undertaken after due permission from SERB, may also be submitted.

RTGS details of the implementing institute to facilitate transfer of the fund as per the template. The RTGS details should be mapped with the PFMS and the Account Type should be Saving.

Any other documents (as detailed bellow specific the programme concerned).

SERB has adopted the Scientific Social Responsibility (SSR) Policy which mandates SERB Grantees to undertake some SSR activities during their project period. You are requested to read the SSR guidelines available under SSR menu and choose the activities according to your preference. Depending on the activity chosen, additional budget would be provided under separate head to carry out the chosen activities. Please note that choosing the SSR activities is mandatory for issue of financial sanction subject to submission and acceptance of other necessary documents

Kindly upload the documents related viz., animal ethical clearance certificate, institutional bio safety clearance certificate, etc., matching with exact approved title of project submitted to SERB.

If the project does not require (viz., animal ethical clearance certificate, institutional bio safety clearance certificate, etc.) please confirm with a self-certification saying that it does not involve any animal/human studies or genetic modification in any organisms or bio safety issues.

(Kindly note that during the issue of sanction order or during the implementation of this project, if SERB come across/found that the project work involves/requires animal/human studies or genetic modification in any organisms or bio safety issues, RCGM approval/ approval from Biodiversity Management Committee Environmental clearance, the project may be terminated without any notice.)

Please note that release of grant is subject to availability of funds under the scheme. Kindly quote the reference number in all future correspondence. The project's reference no. **CRG/2021/005100** may also be mentioned in all research communications arising from the above project.

Yours sincerely,
(Dr. Nilotpal Ghosh)

MS

Email: nilotpal@serb.gov.in

Ph: 911140000396

Dr. PRASANTA KUMAR RATH

Physics

Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211

The updated RTGS details of the Centurion University of Technology and Management , Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 is as below:

PFMS Unique Code	CUTM
Account Name	Centurion University of Technology and Management
Account Number	1426100100000991
Bank Name & Branch	PUNJAB NATIONAL BANK RC Bazaar, Aragul, Jatani, Khordha-752050, Odisha.
IFSC/RTGS Code	PUNB0142610
Email id of A/C Holder	debasis.panda@cutm.ac.in

Mouika Aganwal

FILE NO. SPG/2021/001604-C

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 27 August, 2021

ORDER

Subject: Research project entitled **Engineering anthracnose resistance in chilli pepper (*Capsicum annum L*) using a single transcript CRISPR/Cas9 genome editing system** under the guidance of Dr. RUKMINI MISHRA, Dept. of Botany, School of Applied Sciences, Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 and by Dr. Pushpalatha Ganesh, Associate Professor, Plant Biotechnology, Centurion University of Technology And Management and by Dr. Raj Kumar Joshi, ASSOCIATE PROFESSOR, P.G Dept. Of Biotechnology, Rama Devi Women's University.

1. In continuation of SERB's sanction order No. SPG/2021/001604 dated 27 August, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.349000/-** under 'Grants-in-aid Capital' to Centurion University Of Technology And Management, Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 27 August, 2021.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under SERB POWER Grant (Capital).
5. The Sanction has been issued with the approval of the competent authority on **15 June, 2021** and vide Diary No. **SERB/F/895/2021-2022** dated **29 June, 2021**.
6. The release amount of **Rs. 349000/-** (Rupees Three Lakh Forty Nine Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	ORKH00005861
Account Name	Centurion University of Technology and Management
Account Number	04951131001953
Bank Name & Branch	PUNJAB NATIONAL BANK Sahid Nagar, Bhubaneswar-751007, Khurda, Odisha.
IFSC/RTGS Code	PUNB0049510
Email id of A/C Holder	debasis.panda@cutm.ac.in
Email id of PI	rukmini.mishra@gmail.com

Monika Agarwal
(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

4.	<p>Dr. RUKMINI MISHRA Dept. of Botany, School of Applied Sciences Centurion University of Technology and Management , Village alluri nagar, via- uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: rukmini.mishra@gmail.com Mobile: 917077320293</p> <p>Dr. Pushpalatha Ganesh Plant Biotechnology Centurion University Of Technology And Management</p> <p>Dr. Raj Kumar Joshi PG Dept. Of Biotechnology Rama Devi Women's University (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>Comptroller of Finance, Centurion University Of Technology And Management, Village Alluri Nagar, Via- Uppalada, Paralakhemundi</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

Monika Agarwal

(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

The updated RTGS details of the Centurion University of Technology and Management , Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 is as below:

PFMS Unique Code	CUTM
Account Name	Centurion University of Technology and Management
Account Number	1426100100000991
Bank Name & Branch	PUNJAB NATIONAL BANK RC Bazaar, Aragul, Jatani, Khordha-752050, Odisha.
IFSC/RTGS Code	PUNB0142610
Email id of A/C Holder	debasis.panda@cutm.ac.in

Howika Agonal

67-2001-17-2404
FILE NO. SPG/2021/001604-G

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 27 August, 2021

ORDER

Subject: Research project entitled **Engineering anthracnose resistance in chilli pepper (Capsicum annuum L) using a single transcript CRISPR/Cas9 genome editing system** under the guidance of Dr. RUKMINI MISHRA, Dept. of Botany, School of Applied Sciences, Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 and by Dr. Pushpalatha Ganesh, Associate Professor, Plant Biotechnology, Centurion University Of Technology And Management and by Dr. Raj Kumar Joshi, ASSOCIATE PROFESSOR, PG Dept. Of Biotechnology, Rama Devi Women's University.

1. In continuation of SERB's sanction order No. SPG/2021/001604 dated 27 August, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.882000/-** under 'Grants-in-aid General' to Centurion University Of Technology And Management, Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 27 August, 2021.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debitible to Fund for Science & Engineering Research (FSER) This release is being made under SERB POWER Grant (General).
5. The Sanction has been issued with the approval of the competent authority on **15 June, 2021** and vide Diary No. **SERB/F/896/2021-2022** dated **29 June, 2021..**
6. The release amount of **Rs. 882000/-** (Rupees Eight Lakh Eighty Two Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	ORKH00005861
Account Name	Centurion University of Technology and Management
Account Number	04951131001953
Bank Name & Branch	PUNJAB NATIONAL BANK Sahid Nagar, Bhubaneswar-751007, Khurda, Odisha.
IFSC/RTGS Code	PUNB0049510
Email id of A/C Holder	debasis.panda@cutm.ac.in
Email id of PI	rukmini.mishra@gmail.com

Monika Agarwal
(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

4.	<p>Dr. RUKMINI MISHRA Dept. of Botany, School of Applied Sciences Centurion University of Technology and Management , Village alluri nagar, via- uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: rukmini.mishra@gmail.com Mobile: 917077320293</p> <p>Dr. Pushpalatha Ganesh Plant Biotechnology Centurion University Of Technology And Management</p> <p>Dr. Raj Kumar Joshi P.G Dept. Of Biotechnology Rama Devi Women's University (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>Comptroller of Finance, Centurion University Of Technology And Management, Village Alluri Nagar, Via- Uppalada, Paralakhemundi</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

Monika Agarwal

(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

FILE NO. SPG/2021/001604

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)..

(A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 27 August, 2021

ORDER

Subject: Financial Sanction of the research project titled **Engineering anthracnose resistance in chilli pepper (*Capsicum annuum* L) using a single transcript CRISPR/Cas9 genome editing system** under the guidance of Dr. RUKMINI MISHRA, Dept. of Botany, School of Applied Sciences, Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 and by Dr. Pushpalatha Ganesh, Associate Professor, Plant Biotechnology, Centurion University Of Technology And Management and by Dr. Raj Kumar Joshi, ASSOCIATE PROFESSOR, PG Dept. Of Biotechnology, Rama Devi Women's University - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 2998732/- (Rs. Twenty Nine Lakh Ninety Eight Thousand Seven Hundred and Thirty Two Only)** with break-up of **Rs. 349000/- under Capital (Non-recurring) head and Rs.2649732/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2998732/-** has been approved are given below:

The following budget may be considered for **Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi**

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> PCR thermal cyclers	349000
A'	Total (Non-Recurring)	349000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 1120000 0
2	Recurring - IV : (Overhead Charges)	272612
B'	Total (Recurring)	2649732
C	Total cost of the project (A' + B')	2998732

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project

11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. SPG/2021/001604 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

Monika Agarwal

(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p>Dr. RUKMINI MISHRA Dept. of Botany, School of Applied Sciences Centurion University of Technology and Management, Village alluri nagar, via- uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: rukmini.mishra@gmail.com Mobile: 917077320293</p> <p>Dr. Pushpalatha Ganesh Plant Biotechnology Centurion University Of Technology And Management</p> <p>Dr. Raj Kumar Joshi PG Dept. Of Biotechnology Rama Devi Women's University (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>Comptroller of Finance, Centurion University Of Technology And Management, Village Alluri Nagar, Via- Uppalada, Paralakhemundi</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

Monika Agarwal

(Dr. Monika Agarwal)
Scientist F
monika@serb.gov.in



Centurion
UNIVERSITY

DECLARATION
[on a letterhead (submit a PDF file only)]

1. As a Principal Investigator (PI), I understand that it is my responsibility to carry out the Collaborative Research Scheme (CRS) project work as per rules and regulations of UGC-DAE CSR.
2. The scientific program of the CRS will be carried out jointly by me and a Principal Collaborator at UGC-DAE CSR. All scientific publications resulting from the CRS, will be communicated with each other's consent. Technical and scientific assistance from UGC-DAE CSR and DAE personnel will be acknowledged, either in the acknowledgements or in authorship.
3. Financial support received from UGC-DAE CSR will be acknowledged explicitly in all publications. Please add following sentence in the acknowledgement section of the manuscript, **“This work was partially/fully carried out using the facilities of UGC-DAE CSR”**
4. Progress reports, extension requests, conclusion documents, etc., will be submitted by me to the UGC-DAE CSR with the consent of the Principal Collaborator.
5. Copies of the publications, thesis, etc., resulting from the CRS will be sent to UGC-DAE CSR.

Place: Paralakhemundi, Odisha
Date: 09/11/2022

Satyanarayan Dhal
Signature of Principal Investigator

Anita Patra
Signature and Seal of Head of
Department/University
REGISTRAR
Centurion University of
Technology & Management
ODISHA

Paralakhemundi Campus : At - Village Alluri Nagar, P.O - R. Sitapur, Via - Uppalada, Paralakhemundi - 761 211, Dist: Gajapati, Odisha, Phone: (06815) 2229
Bhubaneswar Campus : At - Ramachandrapur, P.O - Jatni, Bhubaneswar - 752050, Dist: Khurda, Odisha, Phone: (0674) 2492496
Corporate Office : 17, Forest Park, Bhubaneswar - 751009, Dist: Khurda, Odisha, India, Phone: +91 (0674) 2596228
Website: www.cut

centurion university of technology and management
Empowering Lives. Empowering Communities



Samsung Quad Camera
Shot by Satyanarayan Dhal

Dated: 03-Feb-2022

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to Dr. Pushpalatha Ganesh, Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211- under the mentorship of Dr. Ashwani Pareek, at National Agri-Food Biotechnology Institute Sector 81, Sahibzada Ajit Singh Nagar - 160071- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of Rs. 18,30,000/- (Rs. Rupees Eighteen Lakh Thirty Thousand only Only) for a duration of 36 months.

The date of start of the project will be 20 December, 2021. The items of expenditure for which the total allocation of Rs. 18,30,000/- has been approved are given below:

The following budget is proposed for

Centurion University Of Technology And Management , Village Alluri Nagar, Via-uppalada, Paralakhemundi, Gajapati, Odisha-761211 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

National Agri-Food Biotechnology Institute Sector 81, Sahibzada Ajit Singh Nagar - 160071 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) to Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi, Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to National Agri-Food Biotechnology Institute Sector 81, Sahibzada Ajit Singh Nagar - 160071 being the first installment of the grant for the year 2021-2022 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Biophysics, Biochemistry, Molecular Biology and Microbiology)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/7987/2021-2022 dated 03 February, 2022

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Centurion University of Technology and Management , Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 (Parent) :

PFMS Unique Code	CUTM
Account Name	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT
Account Number	1426100100000991
Bank Name & Branch	PUNJAB NATIONAL BANK ARAGUL JATANIR C BAZARIN FRONT OF DAMANEI MANDIRARAGULJATANIKHURDA-752050
IFSC/RTGS Code	PUNB0142610
Email address of PI	pushpalathag@cutm.ac.in
Email id of A/C Holder	debasis.panda@cutm.ac.in
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

National Agri-Food Biotechnology Institute Sector 81, Sahibzada Ajit Singh Nagar - 160071 (Host) :

PFMS Unique Code	NABI
Account Name	NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE
Account Number	38574672149
Bank Name & Branch	STATE BANK OF INDIA MOHALI SCO 35 PHASE-I SAS NAGAR MOHALI
IFSC/RTGS Code	SBIN0001828
Email address of PI	pushpalathag@cutm.ac.in
Email id of A/C Holder	edoffice@nabi.res.in
Email id of Mentor	Dr. Ashwani Pareek

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. **TAR/2021/000258** may also be mentioned in all research communications arising from the above project with due acknowledgement of **SERB**.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

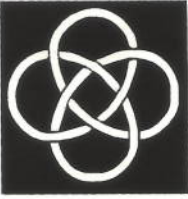

(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	(i) Dr. Pushpalatha Ganesh Crop Physiology and Biotechnology Centurion University of Technology and Management, Village alluri nagar, via-uppalada, paralakhemundi, Gajapati, Odisha-761211 Email: pushpalathag@cutm.ac.in Mobile: 919980570789 (ii) Dr. Ashwani Pareek National Agri-Food Biotechnology Institute Sector 81, Sahibzada Ajit Singh Nagar - 160071 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	(i) Registrar, Centurion University Of Technology And Management, Village Alluri Nagar, Via-Uppalada, Paralakhemundi (ii) Executive Director National Agri-Food Biotechnology Institute Sector 81, Sahibzada Ajit Singh Nagar - 160071 (Receipt of Grant may be intimated by name to the undersigned)


(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in



अंतर-विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी

IUCAA

Inter-University Centre For Astronomy And Astrophysics

An Autonomous Institution of the University Grants Commission

Prof. Kandaswamy Subramanian

Dean, Visitor Academic Programmes

23 August, 2021

The Vice-Chancellor

Centurion University of Technology and Management,

Village Alluri Nagar, R. Sitapur,

Odisha-761212

Dear Sir / Madam,

As you are aware, the Inter-University Centre for Astronomy and Astrophysics (IUCAA) has been set up by the University Grants Commission (UGC) to promote and nucleate astronomy and astrophysics in the universities and affiliated colleges. To this end, IUCAA has launched a number of programmes on its campus at Pune and also on the campuses of various universities and colleges. In particular, arrangements have been made to facilitate the usage by interested students and faculty of universities and colleges of centralized facilities at Pune, such as an advanced Computer Centre with High Performance Computing facility, a state-of-the-art library, the Instrumentation Laboratory and observational facilities including the South African Large Telescope (SALT) at Sutherland. IUCAA is also involved in a number of large projects of national and international importance like ASTROSAT, LIGO-India, the Thirty Metre Telescope, etc.

One major activity in this context is the **Associateship Programme**. Under this programme, faculty members of universities and colleges, who are made **Visiting Associates of IUCAA**, can make visits to IUCAA for specified periods to participate in the teaching research and development activities in astronomy and astrophysics. For such purposes, the universities and colleges are encouraged to regard IUCAA as their field station, whose facilities are at their disposal. Indeed, Professor Arun Nigavekar, the then Chairman of the UGC, has written in 2004 to all the university Vice-Chancellors urging them to look upon IUCAA in this spirit and to make it possible for the Visiting Associates to use its facilities to the maximum extent possible. I enclose for your ready reference a copy of this letter from the Chairman.

As part of the Associateship Programme, IUCAA has selected 17 new Visiting Associates this year and has extended the term of 53 Visiting Associates for a further period of three years. I am happy to inform you that **Dr. Subrata Sarangi**, from your University has been selected as a Visiting Associate for three years from August 1, 2021. Under the Associateship Programme, IUCAA will pay the travel and per diem of the Visiting Associates coming to IUCAA for their scientific work.

I do hope that you will encourage Dr. Sarangi, to take advantage of this offer. I request you to treat Dr. Sarangi's stay at IUCAA as a part of his duties and to provide him with leave as "on duty" so that he can make good use of his Associateship. I enclose the Terms and Conditions of the Associateship Programme for your information.

With kind regards,

Sincerely,

Kandaswamy Subramanian

Prof. Kandaswamy Subramanian

Encl : (i) UGC Chairman's Letter. (ii) Terms and Conditions of Associateship Programme.

cc : Dr. Subrata Sarangi Centurion University of Technology and Management, Village Alluri Nagar, R.Sitapur, Odisha-761212.

Mailing Address : IUCAA, Post Bag 4, Ganeshkhind, Pune - 411 007, India.

Location : Meghnad Saha Road, Pune University Campus, Pune - 411 007.

Phone : +91 (20) 25604 100 • **Fax** : +91 (20) 25604 699

E-mail : kandu@iucaa.ernet.in • **URL** : http://www.iucaa.ernet.in/

डॉ. अरुण निगवेकर

अध्यक्ष

Dr. Arun Nigavekar

Chairman



विश्वविद्यालय अनुदान आयोग

बहादुर शाह ज़फ़र मार्ग, नई दिल्ली 110 002

UNIVERSITY GRANTS COMMISSION

BAHADUR SHAH ZAFAR MARG

NEW DELHI - 110 002

OFF : (011) 23239628

: (011) 23221313

FAX : (011) 23231797

E-mail : narun42@hotmail.com

D.O. No. F.1-11/2004 (CM/IUC)

September 2, 2004

Dear

The University Grants Commission has set up a number of Inter-University Centres and Consortia in order to provide front line research and developmental facilities to the staff and students from universities and colleges in selected thrust areas. It is extremely important, therefore, that the prospective users of the Inter-University Centres are freely permitted to participate in their various programmes as if they are "on duty". In some universities, it is noted that the scholars' visits were not considered as on duty.

Amongst such Centres, the Inter-University Centre for Astronomy and Astrophysics (IUCAA) has an Associateship programme under which selected Associates from universities and colleges are invited to visit IUCAA as Associates of the Centre. Each Associate has a tenure of three years, which can be renewed depending on his/her performance, in teaching, research and developmental activities. It is understood that during these three years, the Associate visits IUCAA several times for visits of at least two weeks duration at a time, without compromising with his/her lecturing and other duties in the parent institution. Their visits are fully covered by IUCAA and hence has no financial implication to the university/college.

IUCAA has a number of facilities like an excellent Library, state of the art Computer Centre, Virtual Observatory as well as an Instrumentation Laboratory where the university staff members can make their own instruments as well as participate in collaborative instrumentation projects. As of now, IUCAA has over eighty Associates on its roll. In order to improve their efficiency, it is important that they are permitted to take advantage of these facilities as much as possible.

I, therefore, urge you to facilitate the participation of Associates from your Institution in the above programme by treating their leave of absence as on duty when they visit IUCAA, which is specifically created by the University Grants Commission as a common facility for all universities.

With kind regards,

Yours sincerely,

(Arun Nigavekar)

To the Vice Chancellors of 150 UGC Funded Universities

Copy to:

1. ✓ Prof. Naresh Dadhich, Director, Inter University Centre for Astronomy and Astrophysics, IUCAA, Post Box No. 4, Ganeshkhind Road, Pune - 411 007.
2. Dr. P. Prakash, JS (T/IUC), UGC, New Delhi.

TERMS AND CONDITIONS OF IUCAA's ASSOCIATESHIP PROGRAMME

- Visiting Associateship is awarded to a faculty member of a college, university department or institution, which has the status of a university recognized by the UGC.
- Visiting Associateship is awarded for a period of three years at a time. If a Visiting Associate ceases to have a formal link with a college or university during the period of an Associateship, then the Associateship stands terminated. Information regarding such a change should be conveyed to the Dean, Visitor Academic Programmes.
- A Visiting Associate can visit IUCAA a maximum of three times as an Associate during each academic year, which extends from August 1 to July 31. There has to be at least one visit during each academic year.
- A visit under the Visiting Associateship programme has to be preferably at least of 15 days duration. A maximum of 150 days can be spent at IUCAA during any one academic year.
- During the three year period of a Visiting Associateship, there can be a maximum of six visits, totally to a maximum of 365 days.
- **Travel:** It is expected that journeys will generally be by air or rail or road by the direct shortest route. All Visiting Associates are entitled to travel by train AC-II tier. Travel reimbursement will only be to the extent of the actual class of travel upto AC-II tier. The claimant will have to produce to and fro tickets/copies of tickets.

Limited funds are available for air travel of Visiting Associates. Air travel may be permitted subject to the following conditions:

- (a) Grade Pay of the claimant is at least Rs. 5400/- (Level : 09) or equivalent per month.
- (b) The claimant stays at IUCAA for a minimum of 15 days.
- (c) Air travel should be by Air India flights only as per GOI rules. Tickets & Boarding Pass to be enclosed along with the claim.

Even when these conditions are satisfied, **prior approval from the Dean, Visitor Academic Programmes** will have to be obtained. Air travel over special sectors, especially in the North-Eastern parts of the country, may be permitted even when the conditions (a) and (b) are not met. Details about this may be had from the Administrative Officer (Visitor Services). The air travel will have to be by the shortest direct route. Those who are not eligible for air travel can choose to travel by air with the understanding that they will be reimbursed only to the extent of eligible train fare or actual air fare, whichever is lower.

- **Daily Allowance (DA):** Visiting Associates are paid DA @ Rs. 600/- per day with free lodging. Charges for Canteen, Cable TV and cooking gas, wherever applicable, will be recovered.
- **Acknowledgement :** Visiting Associates should not give IUCAA as their affiliation. But those who use the IUCAA facilities for research work leading to publications should acknowledge IUCAA in their publication.
- **Accommodation :** We try to ensure that Visiting Associates are accommodated whenever they wish to visit IUCAA. However, there is very high demand during vacations, when most visitors like to come to IUCAA. All intending visitors are, therefore, urged to write to us about their plans for a stay at IUCAA at least two months in advance. This is particularly necessary for family accommodation, since the number of units, which can accommodate families is very limited. Please write to us well in advance with alternative dates and await confirmation from us. You will be guaranteed accommodation on arrival at IUCAA only if you have a word of confirmation sent by us.
- **Visit by research students of Visiting Associates:** The students should write to the Dean, Visitor Academic Programmes, along with a copy of their bio-data, proposed plan of work at IUCAA, and a recommendation by the concerned Visiting Associate.

At a given time, only one student of a Visiting Associate can visit IUCAA. It is not essential for the guide/the concerned Visiting Associate to be present at the time of a student's visit, except for students who are visiting for the first time.

The DA entitlement for research students (registered for M. Phil/Ph.D.) is Rs. 300/- per day with free lodging, and canteen will be charged. They are entitled to travel by train by AC Chair Car or AC –III tier by the direct shortest route. Travel by AC-II tier will be permitted only if the trains on the shortest route do not have any of the above classes. The tickets/copies of the tickets will have to be submitted with the claim. However, the following provisions apply:

Research Students with fellowship: Students with fellowship will have to pay for travel from their contingency grant. When such a grant is not available, they should write in advance to the Dean, Visitor Academic Programmes for travel reimbursement.

Research Students without fellowship: They will be paid for their travel and DA (with free lodging; canteen will be charged), for the full period of their stay. The guide of such students will have to submit a letter to the effect that the students do not have fellowship.

At the end of the visit, all students are required to submit a report to the Dean, Visitor Academic Programmes about the work done at IUCAA.

- **Canteen charges** at present are as follows :

Services	IUCAA members, Visiting Associates, Visiting Students and IUCAA Visitors	All others
Breakfast	Rs. 25.00	Rs. 60.00
Lunch	Rs. 39.00	Rs. 94.00
Dinner	Rs. 39.00	Rs. 94.00
Tea	Rs. 6.00	Rs. 14.00
Coffee	Rs. 6.00	Rs. 14.00

Family members of Visiting Associates will have to pay charges applicable to “All others” category.

- **Canteen Timings :**

Services	Timings	Venue
Breakfast	08:30 – 09:30 hrs.	Canteen
Morning Tea/Coffee	10:30 – 11:15 hrs.	Pantry (near Foucault’s Pendulum)
Lunch	13:00 – 14:00 hrs.	Canteen
Afternoon Tea/Coffee	15:30 – 16:15 hrs.	Pantry (near Foucault’s Pendulum)
Dinner	20:00 – 21:00 hrs.	Canteen

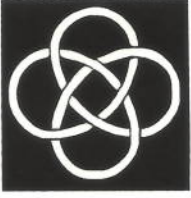
- **Library Timings :**

All working days : 09:00 - 21:00 hrs.
 Saturday, Sunday : 10:30 - 19:00 hrs.
 & Closed holidays

Library will be closed on the following three National Holidays :

August 15 : Independence Day
 October 2 : Mahatma Gandhi Jayanti
 January 26 : Republic Day

=====



अंतर-विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी

IUCAA

Inter-University Centre For Astronomy And Astrophysics

An Autonomous Institution of the University Grants Commission

Prof. Kandaswamy Subramanian
Dean, Visitor Academic Programmes

23 August, 2021

Dr. Subrata Sarangi

Centurion University of Technology and Management,
Village Alluri Nagar, R.Sitapur,
Odisha-761212

Dear Dr. Sarangi,

It gives me great pleasure to invite you, on behalf of the Governing Board and Director of IUCAA to become a Visiting Associate of IUCAA from August 1, 2021 for a period of three years. I hope that you will be able to accept this invitation.

The purpose of the Associateship Programme is to help university and college faculty members in their research projects and to encourage interaction between them and the IUCAA faculty. Those selected as Visiting Associates are encouraged to visit IUCAA regularly and to actively participate in the Centre's programmes.

I am enclosing along with this letter of invitation (1) a copy of the letter I have sent to the Vice-Chancellor of your University, explaining the programme and requesting him/her to treat your visits to IUCAA under this programme as "on duty", (2) a copy of a letter sent in September 2, 2004 to the Vice-Chancellors of different universities by Professor Arun Nigavekar, the then Chairman of the University Grants Commission (UGC). You may use these letters when you apply for leave for visits to IUCAA, if you find that necessary.

I shall look forward to your response to this letter of invitation and hope that IUCAA will benefit from your regular visits, participation and advice. The Terms and Conditions of the Associateship Programme are enclosed along with this letter.

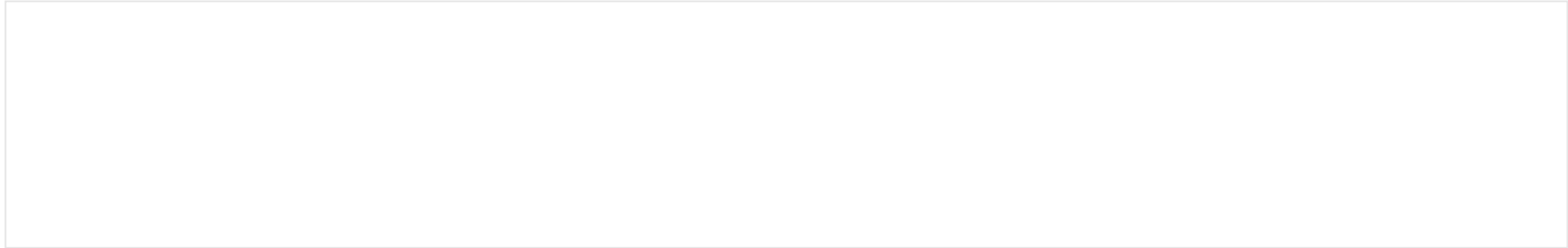
With kind regards,

Sincerely,

Kandaswamy Subramanian

Professor Kandaswamy Subramanian

Encl : (1) Copy of the letter sent to the Vice-Chancellor of your University; (2) Copy of the letter sent by UGC; (3) Terms and Conditions of the Associateship Programme



[Home](#) [Members](#) [Research](#) [Publications](#) [News](#) [Contact](#)

Principal Investigator

Dr. Yujie Sun

yujie.sun@uc.edu

[Google Scholar Profile](#)

Postdoctoral Scholars

Dr. Chuang Han

hanch@ucmail.uc.edu

Dr. Guodong Li (co-advised)

ligd@ucmail.uc.edu

Dr. Bidyut Kundu

kundubk@ucmail.uc.edu

Dr. Guanqun Han

hangq@mail.uc.edu

Awards:

2016, Morgan Graduate Fellowship, USU

2018, RGS Graduate Student Travel Award, USU

2018, Student Travel Award, ACS

2018, Award for Early Research Progress in Chemistry, USU

2019, Lange Fellowship, UC

2020, Hoke Greene Fellowship, UC

Graduate Students

Kaili Yan

yankl@mail.uc.edu

Award:

2021, H. Brian Halsall Award, UC

Morgan Huddleston

huddlemn@mail.uc.edu

Rui Chen (co-advised)

chenr8@mail.uc.edu

Vashnavi Shesham

sheshavi@mail.uc.edu

Undergraduate Students

Trinh Nguyen

nguye5th@mail.uc.edu

Meena Timshina

timshima@mail.uc.edu







Volunteer researcher -regarding

1 message

<aforer@yorku.ca>

Fri., Oct. 25, 2019 at 2:25 p.m.

To: gayatri acharya <gayatri.acharya65@gmail.com>

Cc: Eleni Fegaras <efegaras@my.yorku.ca>

Dear **Gayatri** Acharya

Thank you for your letter dealing with potential volunteer research in my lab. I have a small lab, and we have many more projects to do than we have total hours (from all of us) to do them in and I would be happy to discuss with you the possibilities we have for research projects. You live in Toronto, and York is on the subway line, so if you would be able to visit my lab we can find some time that the three of us (you, me and Eleni Fegaras, a PhD student) can meet to discuss.

arthur forer

[Quoted text hidden]



PRAKASH KVD <prakash.kvd@cutm.ac.in>

Re: Request for study leave-regarding.

Tue, Dec 10, 2019 at 9:46 AM

Registrar CUTM <registrar@cutm.ac.in>

To: Gayatri Acharya <gayatri.acharya@cutm.ac.in>

Cc: VC CUTM <vc@cutm.ac.in>, Anita Patra <anita@cutm.ac.in>, "Dr. Susanta Biswal" <dr.skbiswal@cutm.ac.in>,

Prakash Kvd <prakash.kvd@cutm.ac.in>, "CFO @ CUTM" <cfo@cutm.ac.in>, Chitta Pattnayak

<chitta.pattnayak@cutm.ac.in>, Yashaswi Nayak <yashaswi.nayak@cutm.ac.in>, Registrar Office CUTM

<regoff@cutm.ac.in>

Dear Gayatri

You are allowed to go on study leave for a period of one year. The leave is sanctioned without pay.

Regards

Anita Patra

On Mon, Dec 9, 2019, 9:49 AM Gayatri Acharya <gayatri.acharya@cutm.ac.in> wrote:

Good morning Madam,

I Dr Gayatri Acharya, Assistant Professor, Department of Zoology, School of Applied Science, CUTM want to inform you that I have got an opportunity for research at York University, Toronto, Canada in the field of Cell Biology (Chromosomal movement during cell division) under the supervision of Professor Arthur Forer.

It is therefore requested that I may kindly be granted study leave without pay for a period of one year with effective from 16th December, 2019.

Thanking you

With regards

Dr Gayatri Acharya

Assistant Professor
Department of Zoology
School of Applied Sciences

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

Centurion University of Technology & Management, Odisha

Email: sangram@cutm.ac.in, sangrambapun@gmail.com

Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949

Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackon, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**President, Centurion University of Technology and Management, India
Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**
Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>
Date: Fri, Aug 30, 2019 at 6:53 AM
Subject: RE: Our team's visit to Hawkesbury campus
To: PRESIDENT @ CUTM <president@cutm.ac.in>
Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]
Sent: Thursday, 29 August 2019 12:02 PM
To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>
Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

On Tue, Aug 27, 2019 at 4:07 AM Anna Grankina <A.Grankina@westernsydney.edu.au> wrote:

Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

Here is the passport of Dr Sangram Keshari Swain.

I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

--

Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra



Swapna Harrison
Sr Manager - Administration
Office of the President, Centurion University

17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



--
With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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--

With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

Centurion University of Technology & Management, Odisha

Email: sangram@cutm.ac.in, sangrambapun@gmail.com

Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949

Website: <http://www.cutm.ac.in>

--



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackon, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>

Date: Fri, Aug 30, 2019 at 6:53 AM

Subject: RE: Our team's visit to Hawkesbury campus

To: PRESIDENT @ CUTM <president@cutm.ac.in>

Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au

WESTERN SYDNEY
UNIVERSITY



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 29 August 2019 12:02 PM

To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>
Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->

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- Prof Mukti Mishra

On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

On Tue, Aug 27, 2019 at 4:07 AM Anna Grankina <A.Grankina@westernsydney.edu.au> wrote:

Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

Here is the passport of Dr Sangram Keshari Swain.

I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

--

Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra



Swapna Harrison
Sr Manager - Administration
Office of the President, Centurion University

17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



--
With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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--

With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

Centurion University of Technology & Management, Odisha

Email: sangram@cutm.ac.in, sangrambapun@gmail.com

Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949

Website: <http://www.cutm.ac.in>

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Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackson, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**President, Centurion University of Technology and Management, India
Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>

Date: Fri, Aug 30, 2019 at 6:53 AM

Subject: RE: Our team's visit to Hawkesbury campus

To: PRESIDENT @ CUTM <president@cutm.ac.in>

Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au

WESTERN SYDNEY
UNIVERSITY



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 29 August 2019 12:02 PM

To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>

Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

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I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

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- Prof Mukti Mishra

On Tue, Aug 27, 2019 at 4:07 AM Anna Grankina <A.Grankina@westernsydney.edu.au> wrote:

Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

Here is the passport of Dr Sangram Keshari Swain.

I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

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----->
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- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

--

Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

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- Prof Mukti Mishra



Swapna Harrison
Sr Manager - Administration
Office of the President, Centurion University

17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



--
With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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--
With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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--
With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

Centurion University of Technology & Management, Odisha

Email: sangram@cutm.ac.in, sangrambapun@gmail.com

Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949

Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackon, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**President, Centurion University of Technology and Management, India
Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->
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- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>

Date: Fri, Aug 30, 2019 at 6:53 AM

Subject: RE: Our team's visit to Hawkesbury campus

To: PRESIDENT @ CUTM <president@cutm.ac.in>

Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au

WESTERN SYDNEY
UNIVERSITY



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 29 August 2019 12:02 PM

To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>

Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

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On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

On Tue, Aug 27, 2019 at 4:07 AM Anna Grankina <A.Grankina@westernsydney.edu.au> wrote:

Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

Here is the passport of Dr Sangram Keshari Swain.

I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->

I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

--

Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra



Swapna Harrison
Sr Manager - Administration
Office of the President, Centurion University

17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



--
With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

A DIVISION OF ICI INDUSTRIES PTY LTD | www.iciindustries.com.au
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From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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--

With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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--

With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

Centurion University of Technology & Management, Odisha

Email: sangram@cutm.ac.in, sangrambapun@gmail.com

Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949

Website: <http://www.cutm.ac.in>

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Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackon, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**President, Centurion University of Technology and Management, India
Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>

Date: Fri, Aug 30, 2019 at 6:53 AM

Subject: RE: Our team's visit to Hawkesbury campus

To: PRESIDENT @ CUTM <president@cutm.ac.in>

Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au

WESTERN SYDNEY
UNIVERSITY



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 29 August 2019 12:02 PM

To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>

Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra

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Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

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I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

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Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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Blog: <http://www.muktikantamishra.blogspot.in/>

----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

--

Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->
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- Prof Mukti Mishra



Swapna Harrison
Sr Manager - Administration
Office of the President, Centurion University

17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



--
With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

Centurion University of Technology & Management, Odisha

Email: sangram@cutm.ac.in, sangrambapun@gmail.com

Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949

Website: <http://www.cutm.ac.in>

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Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackon, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**President, Centurion University of Technology and Management, India
Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>

Date: Fri, Aug 30, 2019 at 6:53 AM

Subject: RE: Our team's visit to Hawkesbury campus

To: PRESIDENT @ CUTM <president@cutm.ac.in>

Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au

WESTERN SYDNEY
UNIVERSITY



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 29 August 2019 12:02 PM

To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>

Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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----->

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- Prof Mukti Mishra

On Tue, Aug 27, 2019 at 4:07 AM Anna Grankina <A.Grankina@westernsydney.edu.au> wrote:

Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

Here is the passport of Dr Sangram Keshari Swain.

I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

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Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

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I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra



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17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



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With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K

WESTERN SYDNEY UNIVERSITY



29 August 2019

Professor Mukti Mishra, PhD
President
Centurion University
Office of the President
17 Forest Park, Bhubaneswar 751009
Odisha, India

Dear Professor Mukti Mishra,

Western Sydney University is pleased to invite a delegation from Centurion University, India to visit our campuses during their visit to Sydney between October and November, 2019.

The invitation is extended to the delegation comprising:

Title	Given Name(s)	Surname	Passport No.	Date of expiry
Dr.	Sagar	Maitra	T0600893	07/08/2029
Mr.	Durga Prasad	Padhi	P1782468	16/02/2027
Dr.	Mir Sadat	Ali	Z4533783	25/07/2029
Mr	Sardar Ranjit	Singh	T0598349	28/07/2029
Dr.	Satya Prasad	Nanda	T0599094	30/07/2029
Mr.	Dinkar Jagannath	Gaikwad	T0599092	30/07/2029
Prof.	Sangram Keshari	Swain	N7054001	28/04/2026

The main purpose of this visit is for the Centurion University delegation to meet with representatives from Western Sydney University to gain insight into the protected cropping and greenhouse projects and tour these facilities at the Hawkesbury Campus.

Western Sydney University is very pleased to have the opportunity to meet with Centurion University.

We understand that the delegation will cover their own travel costs; such as airfare, accommodation, meals and transport.

Should you wish to discuss this matter further, or require any more assistance with information about your visit please contact Anna Grankina, Delegations Officer, International Partnerships on telephone +61 (02) 9685 9750 or email a.grankina@westernsydney.edu.au

Yours faithfully

Associate Professor Linda Taylor
Pro Vice-Chancellor, International
T: +612 9683 8105 | E: l.taylor@westernsydney.edu.au



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Report on WSU, Greenworks and Centurion Training

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:41 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Report on WSU, Greenworks and Centurion Training
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **Saskia Blanch** <Saskia.Blanch@icii.com.au>
Date: Thu, Nov 7, 2019 at 4:25 AM
Subject: Report on WSU, Greenworks and Centurion Training
To: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>, rftthomas@westernsydney.edu.au <rftthomas@westernsydney.edu.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>, durgaprasad@cutm.ac.in <durgaprasad@cutm.ac.in>

Dear Dr Sangram, Durga, Priti and Richard,

Attached is a report I have prepared on our time together last week, which may be useful for you and your networks.

I will put it on the Greenworks website under News and then do posts from Facebook and LinkedIn, linking back to there.

If you are on either of those social media sites, please follow AIS Greenworks and myself personally. 😊

Thank you to everyone for a successful week.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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IRRIBIZ • IBIS CONTROLS • CUSTOM BUILT STAINLESS • AIS GREENWORKS • TOTAL LEISURE

From: Dr. Sangram Keshari Swain <sangram@cutm.ac.in>
Sent: Wednesday, 6 November 2019 4:07 PM
To: Saskia Blanch <Saskia.Blanch@icij.com.au>
Cc: Priti Krishna <P.Krishna@westernsydney.edu.au>; sangram@cutm.ac.in
Subject: Re: WSU and Greenworks photos

Dear Ms. Saskia,

Thanks a lot for the mail.

I have downloaded all the photographs. You may delete these from dropbox.

Thank you for all your support during our visit.

On Tue, Nov 5, 2019 at 5:58 AM Saskia Blanch <Saskia.Blanch@icij.com.au> wrote:

Dear Priti and Dr Sangram Keshari Swain,

It was lovely spending time with you all last week and I hope you have returned home happy, satisfied and inspired.

Here is a drop box link to all the photos of our time together.

https://www.dropbox.com/transfer/cap_pid_ft%3AAAAAALiKIONDktVryZtRfQ2UjpsD9COiSEyrBmskjJQbW6cas8aec5U

Please download as soon as possible as I am going to cancel my drop box subscription soon.

Please don't hesitate to contact me if there are any issues.

Kind Regards,

Saskia Blanch
Business Development | AIS GREENWORKS



PHONE 0414 333 996

OFFICE 11/3 Packard Ave Castle Hill NSW 2154 ONLINE www.aisgreenworks.com.au

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With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Students' Welfare (Bhubaneswar Campus)

Professor In-Charge, Examinations (Bhubaneswar, Bolangir, Rayagada Campus)

Associate Professor, Department of Computer Science & Engineering (Bhubaneswar Campus)

Centurion University of Technology & Management

Email: sangram@cutm.ac.in, Mobile: +91-99370-93949, +91-93370-93949

Website: <http://www.cutm.ac.in>

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--
With Thanks & Regards.....

Dr. Sangram Keshari Swain

Dean, Examinations (Centurion University, Odisha)

Dean, Students' Welfare (Bhubaneswar Campus)

Associate Professor, Dept. of CSE (Bhubaneswar Campus)

Convener, Disciplinary Committee (Bhubaneswar Campus)

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Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Greenworks WSU Training for Centurion Academics Report October 2019.docx

3017K

**Western Sydney University, Australia Visit Report, Outcomes
and
Plan_of Action**

Centurion Team

Dr Durga Prasad Padhi

Dr Satya Prasad Nanda

Mr Mir Sadat Ali

Dr Sargr Maitra.

Dr Sangram Keshari Swain

Mr Dinkar Jagannath Gaikward

Mr Sardar Ranjit Singh

Date :- 28th October 2019

Visited Western Sydney University, Parramatta South campus at [10.AM](#). Introduction meeting conducted in the presence of

- a) Dr. Kamali Kanangara, Associate Dean International
 - b) Dr. Gary Dennis, Deputy Dean, School of Science and Health
 - c) Dr. Athula Ginige, Professor of Information and Technology
- In the introductory conversation, dignitaries of WSU narrated that the university is focused on the precision agriculture social computing, digital knowledge and Eco system etc.

Delegates of CUTM highlight the following point

- Vocational education of school dropouts, school pass out, undergraduate and postgraduate students. Community training program for up-skilling and re-skilling.
- PPP: Practice- project- production based training pedagogy and its implementation at the grass root level training through community outreach programs.
- Precision agriculture using mobile app (Kalgudi) for updates and advisory, development of paddy, yield predictor, protected cultivation and IOT.
- RPL: Imparting training to one lakh farmers of Odisha.

- Presently Dr. Athula is working with two agronomist of Professor of Jay Shankar Telaganga State University and has shown interest in collaborative work with CUTM in future.

We visited the different science labs of Parramatta South campus; thanks to Drs Kanangara and Dennis. Dr Laurel Jackon, Director PG Education, and Dr. Pheroza Darauwalla kindly showed us the Parramatta City campus - student activity center and other infrastructure. We also visited the Western University's Launch Pad Office (Incubation Center). We had a short conversation with Ms Valentine, who is in charge of the Work Integrated Training program at Western Sydney University. In the afternoon we visited the Sydney Opera House and the Darling Harbour.

Date 29th October 2019

The day started with a training session organised at Hawkesbury campus on protected cultivation. Practical demonstrations of hydroponic cultivation of different crops, crop management and control of environmental parameters in the glass house were given pre and post lunch. In case of crop management, commercial hybrids are chosen targeting quality output. Crops are cultivated in rock-wool media and nutrient solution is provided to crop needs. The environmental parameters, temperature, relative humidity, carbon dioxide concentration, solar radiation, air movement etc are managed automatically by a well programmed software.

Date 30th October 2019

The day started with a lesson on the heating system used in the glass house by Mr Philip Jones, General Manager AIS GREENWORKS, who explained the hot water thermal cycle and the use of gas fired boiler system. The second topic of discussion automation technology of PRIVA. The PRIVA is a control system used for controlling

- Temperature
- CO2 level
- Relative humidity
- Light
- Air movement

The hardware components and its functions were explained by Mr Edgar Lopez (GREENWORKS). He discussed CPU, cards used, relays and switches used by the control system.

The team visited other small green houses, shade houses and poly-houses used by WSU for research.

The second session started with a presentation by Ms. Saskia Blanch, Business development of AIS GREENWORKS, who showed us seven videos on the operations and management of greenhouses, including media, site selection, greenhouse set up, nutrient management, water management and pest-disease management. She demonstrated to us the products which are commonly used in the greenhouse.

In the next session, Mr. Tony Bundock, Director of Genesis, described the use and operation of the 'Priva System', a software suitable for greenhouse environment. In greenhouse, different environmental parameters like temperature, CO2 concentration, relative humidity, light and air movement are the key variable which can be controlled to create a favourable environment for crops. He described in detail how to manage these variables with the help of software.

Date 31st October 2019

The day was planned for visiting different greenhouses and to meet progressive farmers using protected cultivation

The first visit was to the NFT lettuce farms at South Windsor where we saw farmer is growing different types of lettuce like

- Butter head
- Romaine
- Misticanza
- Leaf types, Ice burg etc

The quality of the crop grown hydroponically was excellent. The various lettuce types were also growing in the field.

Next we visited a tomato farm at Londonderry where the farmer is successfully growing tomatoes in sawdust rooting medium under protected cultivation (Open ventilated condition).

Next farm was floriculture farm at Kemps creek where the farmer is cultivating flowers in soil media under greenhouse conditions, targeting future market.

There is an excellent vegetable farm at Rossmore run by Mr Joe who raised cherry tomatoes and baby cucumbers under protected cultivation

The last visit was to Austral M/S Vellas hydro fresh where farmers demonstrated cultivation of lettuce and herbs under shed net environments.

From the above exposure it became clear that farmers used protected cultivation in a tailor made versions as per their needs for different environment conditions.

Date 1st November 2019

The day started with meeting with Dr. Basant Maheshwari, Professor of water, environment & sustainability. He shared his experience of working in India (Gujarat and Rajasthan) in the area of ground water management. Govt. Of India is going to inaugurate the program in the next week as JALDOOT. He has developed a network of water table monitoring team with villagers.

The second meeting was with Associate Prof. Zhong- Hua Chen, Associate Dean International.

He apprised us about the International Partnership in

- a) Undergraduate studies and dual degree program.
- b) Master of research program.
- c) Collaborative research and possibility of co-publishing of papers.
- d) Top up Scholarship methods.
- e) Student exchange program with partner universities.

Next we met with Dr. Sachin Chavan, Post Doc Fellow.

Dr Sachin is carrying out an experiment on the influence of PAR (Photosynthetically active radiation) on productivity and quality of bell pepper under glass house conditions. The experiment revealed that while the smart glass reduces the energy cost involved in greenhouse environment control, it also reduces penetration of PAR, leading to decreased yield. There was no influence of the smart glass and normal glass on quality of bell pepper.

The fourth meeting as with Prof Robert Spooner-hart.

Dr Robert is carrying out experiment of impact of pollination by stingless bees species on yield and quality of strawberry under protected cultivation. He noted that stingless bees species (*Tetragolula hockingsi* and *Tetragolula carbonaria*, native of Queensland and Sydney, respectively) positively influenced the quality and productivity of strawberry.

Date 2nd November 2019

Visited the Blue Mountain and Wildlife Zoo.

Outcomes and Plan of Actions following the Learning Visit to Western Sydney University of the 7 Members from Centurion University, Odisha.

1. Glass House for Protected Cropping:

- a) Construction and Fabrication (Action: Mir Sadat Ali and Mr. Ranjit Singh in consultation with Dr. Sagar Maitra and Prof. Dinkar Gaikwad)
- b) Crop Management (Action: Dr. Sagar Maitra and Prof. Gaikwad)
- c) Automation (Automated software) - (Action: Dr. Sangram K Swain in consultation with Greenworks and Priva software solution)
- d) Site selection, Irrigation, coordination and Project Management (Action: Dr. Durga Prasad Padhi and Dr. S. P. Nanda)
- e) Budgetary approximation shall be submitted by 15th November 2019

2. Student Exchange Program

- a) Action @ WSU: Dr. Kamali Knnangara, Asso Dean-International and Dr. Zhong-Hua Chen, Asso Dean-International
- b) Action @ CUTM: Dr. Durga Prasad Padhi, Mir Sadat Ali and Dr. S. P. Nanda

3. Project for Ground Water Management

- a) Action @ WSU: Dr. Basant Maheswari, Professor - Water, Environment & Sustainability
- b) Action @ CUTM: Dr. Durga Prasad Padhy and Dr. Sagar Maitra

4. Project for Precision Package of Practices for different Crops

- a) Action @ WSU: Dr. Athule Ginige, Professor - IT

- b) Action @ CUTM: Dr. Sagar Maitra and Prof. Dinkar Gaikwad and Dr. S. P. Nanda
5. Commercial Implementation of Protected Cultivation
- a) Action @ WSU: Ms. Saskia with the help of different progressive farmers
 - b) Action @ CUTM: Whole 7 Member Team
6. Collaboration with Greenworks
- a) Action @ WSU: Mr. Philip, General Manager - Greenworks and Ms. Saskia
 - b) Action @ CUTM: Dr. Sangram K Swain and Dr. Sagar Maitra
7. Work Integrated Program- Exchange of knowledge and best practices
- a) Action@WSU: Prof. Valentine and Prof. Feroza Daruwalla
 - b) Action@CUTM: Mir Sadat Ali

We would like to profusely thank the Management for giving us the lifetime opportunity for being part of the Team. Also we would like to share our gratitude to the whole WSU Team involved for caring, supporting and cooperating with us throughout the whole trip. A special mention of Dr. Priti Krishna for her deep caring, sharing and giving attributes for the whole Team of Centurion. The entire training and meetings were put in place by Dr Priti Krishna and we will continue to work with her in various ways.

**Thank You,
7 members of the Team**



Bijan Kumar Das <bijan.das@cutm.ac.in>

Fwd: Our team's visit to Hawkesbury campus

1 message

PRAKASH KVD <prakash.kvd@cutm.ac.in>
To: Bijan Kumar Das <bijan.das@cutm.ac.in>

Thu, Apr 22, 2021 at 10:40 PM

----- Forwarded message -----

From: **Dr. Sangram Keshari Swain** <sangram@cutm.ac.in>
Date: Thursday, April 22, 2021
Subject: Fwd: Our team's visit to Hawkesbury campus
To: PRAKASH KVD <prakash.kvd@cutm.ac.in>

----- Forwarded message -----

From: **PRESIDENT @ CUTM** <president@cutm.ac.in>
Date: Fri, Aug 30, 2019 at 9:34 AM
Subject: Fwd: Our team's visit to Hawkesbury campus
To: <durga.padhi@cutm.ac.in>, Durga Prasad Padhi <durgaprasad@cutm.ac.in>
Cc: Nagen Kumar Bisoi <nagen@cutm.ac.in>, Sangram Keshari Swain <sangram@cutm.ac.in>, manager admn <manager.cutm@gmail.com>

Dear Durga babu,

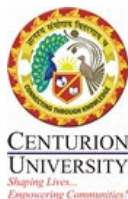
Here is the letter of invitation. The dates of visit, as suggested by the President, are 27th September to 6th October. Therefore, please request everyone to immediately apply for visa, with the urgent clause, so you get it at the earliest. I am not forwarding this letter to everyone - with the exception of Prof Sangram Swain - because I may not have all the emails. Please, Durga babu, share the invitation letter with everyone in the team.

Please apply immediately online. Go to this link and apply under "Visitor Visa" subclass 600 - <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/visitor-600>. When you fill in the form, there is an option that says "apply as part of a group". Choose that so the authorities would know that all of you are traveling together. That will help with the speed of processing the visa,

Use the help of Mr Nagen Bisoi in case you get stuck anywhere.

With warmest regards,
Swapna

--

**Prof Mukti Mishra, PhD**President, Centurion University of Technology and Management, India
Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

4/23/2021

Centurion University of Technology and Management Mail - Fwd: Our team's visit to Hawkesbury campus

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

Australia: +61-476290909 (M)

Website: <http://www.cutm.ac.in>

Blog: <http://www.muktikantamishra.blogspot.in/>

----->
I was never born and will never die. I'm a concept. Eternal. Infinite. Indestructible.

- Prof Mukti Mishra

----- Forwarded message -----

From: **Anna Grankina** <A.Grankina@westernsydney.edu.au>

Date: Fri, Aug 30, 2019 at 6:53 AM

Subject: RE: Our team's visit to Hawkesbury campus

To: PRESIDENT @ CUTM <president@cutm.ac.in>

Cc: Marisa Furno <M.Furno@westernsydney.edu.au>

Dear Swapna,

Please find attached the invitation letter signed by Associate Professor Linda Taylor, Pro Vice-Chancellor, International as requested.

Should you have any questions, please, don't hesitate to contact me.

Kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au

WESTERN SYDNEY
UNIVERSITY



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 29 August 2019 12:02 PM

To: Anna Grankina <A.Grankina@westernsydney.edu.au>

Cc: manager admn <manager.cutm@gmail.com>

Subject: Re: Our team's visit to Hawkesbury campus

Dear Anna,

We looked at the calendar again and felt that the best time for the visit would be from 27 September to 6th of October. If this is suitable to you as well, let's freeze these dates for the team's visit, in which case we would require the letters of invitation as soon as possible so they could apply for the visa.

Do let me know if there is anything I can do from this end to help.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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Blog: <http://www.muktikantamishra.blogspot.in/>

----->

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- Prof Mukti Mishra

On Wed, Aug 28, 2019 at 12:02 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Anna,

Sincere apologies for the delay in my response. The tour is proposed to be between the end of October and beginning of November.

Hope this helps.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra

On Tue, Aug 27, 2019 at 4:07 AM Anna Grankina <A.Grankina@westernsydney.edu.au> wrote:

Dear Professor Mukti Mishra,

My sincere apology for bothering you but I'm just following up on the dates of your tour. In order to finalise the invitation letter I'd appreciate if you could advise of the dates of your visit to Western Sydney University.

Thank you and kind regards

Anna Grankina | Administrative Assistant, International Partnerships

Western Sydney International

P: 9685 9750 | Ext: 9750

E: a.grankina@westernsydney.edu.au

westernsydney.edu.au



From: PRESIDENT @ CUTM [mailto:president@cutm.ac.in]

Sent: Thursday, 22 August 2019 8:01 PM

To: Marisa Furno <M.Furno@westernsydney.edu.au>; Anna Grankina <A.Grankina@westernsydney.edu.au>

Subject: Fwd: Our team's visit to Hawkesbury campus

Dear Anna,

Here is the passport of Dr Sangram Keshari Swain.

I will revert to you regarding the dates of the tour.

With warmest regards,

Swapna

--



Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

Phone: +91 674 2596227 (D), 2596228 (Epbx) | Fax: +91 674 2596229; **Mob: +91-9437007777 (M)**

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- Prof Mukti Mishra

----- Forwarded message -----

From: **manager admn** <manager.cutm@gmail.com>

Date: Fri, Aug 16, 2019 at 7:16 PM

Subject: Re: Our team's visit to Hawkesbury campus

To: Goran Lopaticki <G.Lopaticki@westernsydney.edu.au>, Ian Anderson <I.Anderson@westernsydney.edu.au>

Cc: Denise Kirkpatrick <D.Kirkpatrick@westernsydney.edu.au>, PRESIDENT @ CUTM <president@cutm.ac.in>

Dear Goran and Ian,

Greetings!

Further to my earlier email, here are the passport details of Dr Sangram Keshari Swain. Kindly add his name to the list of the people who require invitation for visa.

Looking forward to hearing from you,

With warmest regards,

Swapna

On Wed, Aug 14, 2019 at 4:44 PM PRESIDENT @ CUTM <president@cutm.ac.in> wrote:

Dear Goran and Ian,

Greetings of the day!

We have put together the passports of the team members who would be visiting Hawkesbury Campus. There is one other person in the team, whose passport I will send across tomorrow.

Could you kindly send invitation letters for each of the persons:

1. Dr Sagar Maitra
2. Mr Durga Padhi
3. Dr Mir Sadat Ali
4. Mr Ranjit Singh
5. Dr SP Nanda
6. Mr Dinkar Gaikwad
7. Prof Sangram Keshari Swain (his passport I will send later)

Do kindly let me know if you require any further information from my side.

Thanking you,

With warmest regards,

Swapna Harrison

Sr Manager - Administration & EA to the President, Centurion University

M: +91-9776880000, e: manager.admn@cutm.ac.in

--

Prof Mukti Mishra, PhD

President, Centurion University of Technology and Management, India

Chairman, Gram Tarang

India: Centurion University, Office of the President, 17 Forest Park, Bhubaneswar 751009, Odisha.

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- Prof Mukti Mishra



Swapna Harrison
Sr Manager - Administration
Office of the President, Centurion University

17 Forest Park, Bhubaneswar 751009

Cell: +91-9776880000, Ph: +91-674-2596227
Epbx: +91-674-2596228, Fax: +91-674-2596229



--
With Thanks & Regards.....

Dr. Sangram Keshari Swain
Dean, Examinations (Centurion University, Odisha)
Dean, Students' Welfare (Bhubaneswar Campus)
Associate Professor, Dept. of CSE (Bhubaneswar Campus)
Convener, Disciplinary Committee (Bhubaneswar Campus)
Centurion University of Technology & Management, Odisha
Email: sangram@cutm.ac.in, sangrambapun@gmail.com
Mobile: +91-99370-93949, +91-93370-93949, +91-94374-93949
Website: <http://www.cutm.ac.in>



Prakash KVD
Dean-IIE & HRD
Centurion University of Technology and Management
Po: Jatni, Dist:Khurda, Odisha
Handphone-8895585474/8328964815



Invitation Letter for visa application Centurion University_signed.pdf
158K



20 January 2017

By email: abidentonema@gmail.com

Mohammad Abid Hussain

2/A, Ghandi Sarah, Risha Post
HOOGHLY 712248
WEST BENGAL INDIA

Dear Dr Abid,

Visit to the National Centre for Farmer Health – Invitation

It is with great pleasure that the National Centre for Farmer Health, a partnership between Western District Health Service and Deakin University, invites you to visit the Centre based in Hamilton, Victoria, Australia in February 2017 for the purpose of undertaking the HMF701 Agricultural Health and Medicine unit.

We look forward to welcoming you for the onsite sessions commencing at 8:30am on Monday 27 February and ending Friday 3 March 2017. The rest of the course needs to be completed online. We would also like to congratulate you on the scholarship you attained worth AUD\$8,380, which includes course fees of AUD\$3380 plus travel and accommodation (a value of over AUD\$5000). Please see attached another letter outlining the arrangements to be made for your visit.

We would also like to inform you that you may be contacted by our media representative, during the course of your visit. They will likely be interested in where you are from, why you are participating in the course, and how you will use your new knowledge to collaborate with the National Centre for Farmer Health to make a difference in India.

Again, congratulations and we look forward to your participation in and contribution to the Agricultural Health and Medicine unit. Details of the unit can be found here:
<http://www.farmerhealth.org.au/page/education/what-is-hmf701>

Dr Jacquie Cotton, Unit Coordinator, jacquie.cotton@deakin.edu.au and Dr Aziz Rahman aziz.rahman@deakin.edu.au and will be liaising with you on the detailed contents and enrolment for your visit to the National Centre for Farmer Health.

Kindest regards,


A/Prof Susan Brumby
Director

20 January 2017

Mohammad Abid Hussain
2/A, Ghandi Sarah, Risha Post
HOOGHLY 712248
WEST BENGAL INDIA

Dear Dr Abid

Visit to the National Centre for Farmer Health

Congratulations on your scholarship to attend the 2017 Agricultural Health and Medicine course, with the onsite component between Monday 27 February and Friday 3 March 2017.

This letter confirms the arrangements to be made to facilitate your visit.

Scholarship

The value of your scholarship includes course fees of AUD\$3380 plus reasonable costs of travel and accommodation (a total value of over AUD\$5000).

Visa

You should make your own enquiries regarding visa requirements to come to Australia. Please let us know if you need additional correspondence from us to support your application.

Air Fares

We have found that it is often best for delegates to make their own travel arrangements through their own travel agents and send the invoice to us to finalise payment of travel. Please note that we must agree to the cost of the airfares and will only cover economy class tickets.

We suggest you arrive in Australia on Saturday 25 February and depart late on Saturday 4 March 2017 to allow travel time between Hamilton to Melbourne. Hamilton is 300kms west of Melbourne with limited public transport. Professor Mukti was here.

You should send a copy of your itinerary and invoice to us by email to cecilia.fitzgerald@wdhs.net as soon as possible to arrange payment.

Domestic Travel

The National Centre for Farmer Health is situated in Hamilton, Western Victoria. This is approximately 300km (or 3.5 hours) west from the city of Melbourne. We recommend that you take the Airport Shuttle Bus from Melbourne Airport to Ballarat and thereafter take the V/Line Coach Service from Ballarat to Hamilton.

National Centre for Farmer Health

Western District Health Service

PO Box 283

Hamilton, Victoria 3300 Australia

T +61 (3) 5551 8533 E ncfh@wdhs.net

W www.farmerhealth.org.au

Twitter @farmerhealth

Facebook bit.ly/farmerhealthFB

The V/Line Coach Service only has two services to Hamilton each day, departing Ballarat at either 10:55am or 19:50pm on Saturdays or 11:15am or 19:50pm on Sundays.

Please visit <http://airportshuttlebus.com.au/> and <https://www.vline.com.au/Timetables/Train-coach-timetables?loc=Ballarat%20Station&route=201B&date=25%2F02%2F2017> for information regarding the shuttlebus and V/Line coach bus times.

Once your arrival and departure dates and times are confirmed, we are happy to assist with booking this domestic travel.

Accommodation

We will arrange suitable accommodation for you from Saturday 25 February through to Saturday 4 March 2017 in Ballarat and Hamilton.

In Hamilton you will be housed in a share accommodation (along with two other international doctors from Indonesia). The house has one shared lounge room and one shared kitchen, 2 bathrooms and a private bedrooms.

We will organise accommodation for you in Ballarat (if needed) as you travel through to Hamilton once your flight details are known.

Meals

Lunch and morning and afternoon tea will be provided from Monday to Friday.

On Monday 27 February 2017 we are hosting a Welcome Reception with food and drinks and on Thursday 2 March, an optional student dinner.

You will be required to make your own arrangements for breakfast and dinner all other days but we are happy to assist with showing you to the supermarket if required.

Insurance

You **must** arrange your own comprehensive travel insurance to cover you for the entire length of your stay and send us a copy of this along with your flight itinerary.

If you have any other queries or concerns, please do not hesitate to contact Dr Jacquie Cotton (+61 3 5551 8585 or Jacquie.cotton@deakin.edu.au)

Yours sincerely,



A/Prof Susan Brumby
Director

National Centre for Farmer Health

Western District Health Service

PO Box 283

Hamilton, Victoria 3300 Australia

T +61 (3) 5551 8533 E ncfh@wdhs.net

W www.farmerhealth.org.au

Twitter @farmerhealth

Facebook bit.ly/farmerhealthFB

13 November 2017

BY EMAIL: abidhussain@cutm.ac.in

Mohammad Abid Hussain
2/A, Ghandi Sarah, Risha Post
HOOGHLY 712248
WEST BENGAL INDIA

Dear Dr Abid

Visit to the National Centre for Farmer Health Agricultural Health and Medicine

We refer to previous correspondence regarding the scholarship you were awarded in 2017 to attend Agricultural Health and Medicine training and confirm that the offer remains open to you.

In 2018, the course will commence at 8:30am on Monday 26 February through to Friday 2 March. We once again extend the invitation for you to visit the Centre based in Hamilton, Victoria, Australia for the purpose of exploring possible research and academic collaboration and undertaking the HMF701 Agricultural Health and Medicine course.

This letter confirms the arrangements to be made to facilitate your visit.

Scholarship

The value of your scholarship is AUD\$3380 plus reasonable costs of travel and accommodation (to a value of AUD\$5000).

Visa

You should make appropriate enquiries regarding Visa requirements to come to Australia. We note that you have previously provided us with a copy of the Visa you obtained on 6 March 2017. You should ensure that this Visa will be current and appropriate for your travel in February 2018.

Air Fares

We have found that it is often best for delegates to make their own travel arrangements through their own travel agents and send the invoice to us to finalise payment of travel. Please note that we must agree to the cost of the airfares and will only cover economy class tickets.

The tax invoice for reimbursement of the flight costs needs to be made out to:

National Centre for Farmer Health
Western District Health Service
20 Foster Street,
HAMILTON VIC 3300

We suggest you arrive in Australia by no later than Saturday 24 February and depart late on Saturday 3 March 2018 to allow travel time between Hamilton to Melbourne. Hamilton is 300kms west of Melbourne with limited public transport.

Once we have agreed on the flight costs, you should send a copy of your travel itinerary, invoice and travel insurance to us by email to cecilia.fitzgerald@wdhs.net as soon as possible.

Domestic Travel

The National Centre for Farmer Health is situated in Hamilton, Western Victoria. This is approximately 300km (or 3.5 hours) west from the city of Melbourne. We recommend that you take the Airport Shuttle Bus from Melbourne Airport to Ballarat and thereafter take the V/Line Coach Service from Ballarat to Hamilton.

The V/Line Coach Service only has two services to Hamilton each day, departing Ballarat at either 10:55am or 19:50pm on Saturdays and Sundays.

Please visit <http://airportshuttlebus.com.au/> and [www.vline.com.au/getattachment/ef2a18c6-76a2-4f00-aa1f-16214f4168f3/201-Mt-Gambier-Melbourne-\(via-Casterton,-Hamil-\(1\)\)](http://www.vline.com.au/getattachment/ef2a18c6-76a2-4f00-aa1f-16214f4168f3/201-Mt-Gambier-Melbourne-(via-Casterton,-Hamil-(1))) for information regarding the shuttlebus and V/Line coach bus times.

Once your arrival and departure dates and times are confirmed, we are happy to assist with booking this domestic travel.

Accommodation

We will arrange suitable accommodation for you from Saturday 24 February through to Saturday 3 March 2018 in Ballarat and Hamilton and provide you with details of the arrangements.

Meals

Lunch and morning and afternoon tea will be provided from Monday to Friday.

On Monday 26 February 2018 we are hosting a Welcome Reception with food and drinks and on Thursday 2 March, an optional student dinner. Please let us know if you have any dietary requirements that we need to be aware of for these purposes.

You will be required to make your own arrangements for breakfast and dinner all other days but we are happy to assist with showing you to the supermarket if required.

National Centre for Farmer Health

Western District Health Service

PO Box 283

Hamilton, Victoria 3300 Australia

T +61 (3) 5551 8533 E ncfh@wdhs.net

W www.farmerhealth.org.au

Twitter [@farmerhealth](https://twitter.com/farmerhealth)

Facebook bit.ly/farmerhealthFB

Insurance

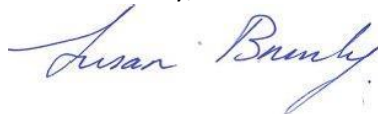
You **must** arrange your own comprehensive travel insurance to cover you for the entire length of your stay and send us a copy of this along with your flight itinerary.

Deakin Enrolment

We confirm that you are already enrolled at Deakin University to undertake HM701 in Term 1 2018 and that you will have access to Deakin Cloud Online access approximately one week prior to the course commencing. You would have been provided with your Student Connect Log on details by Deakin earlier this year and these are the details needed access Deakin Online.

If you have any other queries or concerns, please do not hesitate to contact Dr Jacquie Cotton (+61 3 5551 8585 or Jacquie.cotton@deakin.edu.au).

Yours sincerely,



Prof Susan Brumby
Director

Copy: mukti.mishra@cutm.ac.in
vc@cutm.ac.in
president@cutm.ac.in
anita@cutm.ac.in
aziz.rahman@deakin.edu.au
jacquie.cotton@deakin.edu.au



ABID HUSSAIN <abidentonema@gmail.com>

Fwd: FW: Visa Grant Notice: K1110819 [SEC=UNCLASSIFIED]

Nagen Kumar Bisoi <nagen@cutm.ac.in>
To: manager admn <Manager.CUTM@gmail.com>
Cc: ABID HUSSAIN <abidentonema@gmail.com>

Mon, Mar 6, 2017 at 10:37 PM

----- Forwarded message -----
From: "Bijay Boity" <bijay@triphoppers.com>
Date: 6 Mar 2017 18:08
Subject: FW: Visa Grant Notice: K1110819 [SEC=UNCLASSIFIED]
To: "Nagen Kumar Bisoi" <nagen@cutm.ac.in>
Cc:

Notification of the grant of a VISITOR visa



Australian Government
Department of Immigration
and Border Protection

06 March 2017

Mr Mohammad Abid HUSSAIN
Urvi Tours 139 Room No.111 1st Floor
Mohammadpur Near Bhikaji Cama Place
New Delhi
Delhi
110066
INDIA

In reply please quote:

Client Name	Mohammad Abid HUSSAIN
Date of Birth	09 August 1972
Application ID	IRIS 20352284301
Grant ID	1060112647747A
File Number	B17/01229036
Payment Receipt Number	170000038015
Place of Lodgement	New Delhi

Dear Mr Mohammad Abid HUSSAIN

Notification of the grant of a VISITOR (Class FA) VISITOR (Subclass 600) visa.

I wish to advise that a decision has been made on this application and a visa has been granted on 06 March 2017 to the applicant(s) listed in the Visa Grant Notice, which contains important information about your visa. Please keep a copy of this letter and the Visa Grant Notice in a safe place for your reference.

Questions about this decision

If you have questions about this decision, or the process or information that was taken into account, you may contact us by any of the means listed below.

Changes to your Circumstances

It is important that you tell us about any changes to your circumstances including your name, passport, contact details, address or family members as soon as possible. You are required to do this in writing. There are a number of forms available at www.border.gov.au or at any of our offices.

Client service information

Our Client Service Charter and information on how to make a complaint, complaint or suggestion is available at www.border.gov.au.

Contacting this processing office

We prefer contact with this office concerning your application to be by email. We try to respond to all email enquiries within seven (7) working days. If you do not have access to email or need to contact us urgently, please visit our website available at www.border.gov.au

Yours sincerely

Gagan

Visa Officer

Position Number: 60029055

Department of Immigration and Border Protection

VISA GRANT NOTICE

The following is important information, including your visa grant number or transaction reference number. This is the unique number assigned to your visa. Please keep this visa number with you for the life of your visa, as you may be asked for it.

Details of Application

Application ID IRIS 20352284301

Visa Class VISITOR (Class FA) VISITOR (Subclass 600)

Application Lodgement Date 13 February 2017

File Number B17/01229036

Grant ID 1060112647747A

Payment Receipt Number 170000038015

Decision Date 06 March 2017

Primary Applicant

Name Mohammad Abid HUSSAIN

Date of Birth 09 August 1972

Application ID 20352284301

Citizenship India

Passport Number K1110819

Visa Grant Number 1060112647747A

Visa Stream Business Visitor

Visa Grant Date 06 March 2017

Stay For/Until 3 Month(s)

Entries Multiple

Last Date to Arrive 06 March 2018

Conditions:

8115 - LIMITED ACTIVITIES

8201 - MAX 3 MONTHS STUDY

Other Applicants

No Other Applicants Recorded

Visa conditions and entitlements

If your visa has been granted subject to certain conditions and you do not comply with these conditions, there may be serious consequences including: visa cancellation, detention and removal from Australia. More information on visa conditions and entitlements is available at

www.border.gov.au.

Checking your visa details

You can check and email your visa details and conditions at any time using the Visa Entitlement Verifications Online (VEVO) system. To access VEVO visit www.border.gov.au/vevo

You will need to enter the following information:

- Your Visa Grant Number or Transaction Reference Number, and
- Your passport or ImmiCard information.

You can also check and email your visa details through the myVEVO mobile app.

Travelling to and from Australia

You can provide evidence that you have the authority to travel and enter Australia, and/or remain Australia by showing your passport or ImmiCard linked to your electronic visa record.

More information is available at www.border.gov.au/aboutyourvisa

Most countries have specific entry, exit and visa requirements. If you are transiting or exiting through another country, it is your responsibility to check with the relevant government authorities. The Australian Government cannot advise on other countries' requirements.

Polio vaccinations

On 5 May 2014, the World Health Organization (WHO) Director General declared the recent international spread of wild type polio virus to be a 'public health emergency of international concern' under the International Health Regulations (IHR). Nine countries, listed below, have been identified as having suffered recent outbreaks of Polio. If you are from one of the countries listed below, or have spent 28 days or longer in these countries on or after 5 May 2014, we encourage you to have a polio vaccination prior to departing for Australia. Having the vaccination will also assist in eradicating the spread of polio. To obtain maximum benefit in assisting with the eradication of the spread of polio, it is advisable to have the vaccination at least 4 weeks prior to your travel. **Countries:** Afghanistan, Cameroon, Equatorial Guinea, Ethiopia, Iraq, Nigeria, Pakistan, Somalia, Syria

Further information is available from www.border.gov.au.

Gagan

Visa Officer

Position Number: 60029055

Department of Immigration and Border Protection

--

Regards,

Bijay Boity

triphoppers.com

361, Paika Nagar, Delta Square.

Bhubaneswar-751013, Odisha, India.

Mobile :-+91 9937512712

Mobile :-+91 9337512712

E mail :- bijay@triphoppers.com



Tripshoppers.com
Plot No. 736, 1st Floor, Lane 3 Jaydev
Vihar
Contact:(0674)2361160/2361161
Fax:NONE
Email:contact@tripshoppers.com
Website:www.tripshoppers.com

Consultant Information
Name: Bijay Boity
Tel:+91 9937512712
Email:contact@tripshoppers.com

AMADEUS



Booking Reference

Amadeus PNR : PVR4RQ

Airline PNR : SQ PVR4RQ










Traveller(s) Information

MR MOHAMMAD ABID HUSSAIN








Flight Details

 Vishakhapatnam (Fri, 23 February 2018)	To	Singapore (Sat, 24 February 2018)	
10:55 PM	Vishakhapatnam Terminal	05:55 AM	Changi Terminal 2
 Singapore Airlines SQ5451 Confirmed Non Stop Operated By Silkair	Duration : 4:30 Hrs. Aircraft : AIRBUS INDUSTRIE A319-319	Cabin : Economy Class : M	
Passenger Name MR MOHAMMAD ABID HUSSAIN	E-Ticket Numbers 618-5125488455	Seat Preference NO-SMOKING AISLE SEAT	Baggage 30 Kilograms
 Singapore (Sat, 24 February 2018)	To	Melbourne (Sat, 24 February 2018)	
07:45 AM	Changi Terminal 3	06:10 PM	Tullamarine Terminal 2
 Singapore Airlines SQ207 Confirmed Non Stop	Duration : 7:25 Hrs. Aircraft : Airbus A350-900-359	Cabin : Economy Class : M	
Passenger Name MR MOHAMMAD ABID HUSSAIN	E-Ticket Numbers 618-5125488455	Seat Preference NO-SMOKING AISLE SEAT	Baggage 30 Kilograms
 Melbourne (Sun, 04 March 2018)	To	Singapore (Sun, 04 March 2018)	
11:25 AM	Tullamarine Terminal 2	04:05 PM	Changi Terminal 0
 Singapore Airlines SQ238 Confirmed Non Stop	Duration : 7:40 Hrs. Aircraft : BOEING 777-300ER-77W	Cabin : Economy Class : N	
Passenger Name MR MOHAMMAD ABID HUSSAIN	E-Ticket Numbers 618-5125488455	Seat Preference 46D	Baggage 30 Kilograms

Singapore (Sun, 04 March 2018)		To		Vishakhapatnam (Sun, 04 March 2018)	
08:25 PM	Changi Terminal 2	10:05 PM		Vishakhapatnam Terminal	
 Singapore Airlines SQ5452 Confirmed Non Stop <small>Operated By Silkair</small>		Duration : 4:10 Hrs. Aircraft : AIRBUS INDUSTRIE A319-319	Cabin : Economy Class : N		
Passenger Name	E-Ticket Numbers	Seat Preference	Baggage		
MR MOHAMMAD ABID HUSSAIN	618-5125488455	NO-SMOKING AISLE SEAT	30 Kilograms		



E-Ticket Details

 MR MOHAMMAD ABID HUSSAIN		Ticket Number : 618-5125488455	DoTI : 18-Dec-2017		
Airline	Sector	Departure Date	Fare Basis	Not Valid After	Not Valid Before
 Singapore Airlines SQ5451	Vishakhapatnam-Singapore	23-FEB-2018	MIRT	23-FEB-2018	23-FEB-2018
 Singapore Airlines SQ207	Singapore-Melbourne	24-FEB-2018	MIRT	24-FEB-2018	24-FEB-2018
 Singapore Airlines SQ238	Melbourne-Singapore	04-MAR-2018	NIA76M	04-MAR-2018	04-MAR-2018
 Singapore Airlines SQ5452	Singapore-Vishakhapatnam	04-MAR-2018	NIA76M	04-MAR-2018	04-MAR-2018
Fare Details	Currency	Amount			
Base Fare	INR	60000			
K3	INR	3000			
WO	INR	245			
OO	INR	288			
SG	INR	288			
WY	INR	2092			
AU	INR	2957			
WG	INR	205			
Service Fee	INR	0.00			
Total Fare	INR	69075.00			
		Form of Payment	: Cash		
		Fare Endorsement	: PAX VLD SQ/MI ONLY/ NON-ENDO/NON-REF/ CHNG USD50		



Mohammad Abid Hussain
2/A, Ghandi Sarah, Risha Post
HOOGHLY 712248
WEST BENGAL INDIA

ITINERARY

24 February 2018 to 4 March 2018

24 February 2018	
10:55pm	Depart India SQ5451 Vishakhapatnam Airport
6:10pm	Arrive Australia SQ207 Tullamarine Airport Terminal 2
Accommodation	Holiday Inn Melbourne Airport 10-14 Centre Road, Melbourne Airport Check In: Saturday 24 February 2018 Check Out: Sunday 25 February 2018 Phone: (03) 9933 5111 Booking No. 64627854 (Attachment 1) Note: Please call hotel on (03) 9933 5111 on arrival to be collected from Airport and taken to Hotel. Hotel bus will be able to take you on Sunday morning back to the Airport to catch the Shuttle Bus. <u>Please collect V/Line ticket from Hotel reception</u>
25 February 2018	
8:45am	Depart Melbourne Airport Ballarat Airport Shuttle Bus Terminal 4, Multi Storey car park Ground floor Bus Bay 14 Ticket No. 254380 (Attachment 2)
10:15am	Arrive Ballarat Railway Station
10:55am	Depart Ballarat Railway Station V/Line Coach service to Hamilton Reference No. 12491400 (Attachment 3) <u>Please ensure you collect original ticket from Holiday Inn Reception</u>

1:15pm	Arrive Hamilton Railway Station Please refer Hamilton Map - (Attachment 4)
Accommodation	47 Tyers Street, Hamilton Bedroom 3 Please collect the keys from the Hamilton Base Hospital Reception, 20 Foster Street, Hamilton. You will be sharing this property with other health professional students undertaking the Agricultural Health & Medicine Course. The property has a shared living area, kitchen and bathroom. Note: This property is located approx. 20 mins walk from the Hamilton Station and nearly 4 min walk to Hamilton Base Hospital. If you require a taxi from the Station to this property please call (03) 5571 1200.
26 February 2018	
8:45am to 4:30pm	HMF 701 Agricultural Health & Medicine Western District Health Service (WDHS) Hamilton Base Hospital Education Centre
5:45pm to 7:00pm	HMF701 Welcome Reception Hamilton Art Gallery, 107 Brown Street, Hamilton
27 February 2018	
8:00am to 5:30pm	HMF 701 Agricultural Health & Medicine WDHS Education Centre
28 February 2018	
8:00am to 5:30pm	HMF 701 Agricultural Health & Medicine WDHS Education Centre
1 March 2018	
9:00am to 5:30pm	HMF 701 Agricultural Health & Medicine WDHS Education Centre
7:00pm	Optional: Student Dinner Blue Malt Restaurant, Gray Street, Hamilton
2 March 2018	
9:00am to 2:45pm	HMF 701 Agricultural Health & Medicine WDHS Education Centre
4:25pm	Depart Hamilton V/Line Coach Service to Ballarat Railway Station
6:50pm	Arrive Ballarat
7:09pm	Depart Ballarat on Train
8:40pm	Arrive Southern Cross Station (Melbourne City)
Accommodation	Atlantis Hotel 300 Spencer Street, Melbourne Check In: Friday 2 March

	Check Out: Sunday 4 March 2018 Phone +61 3 9600 2900 Booking No. 2099.628.284 (Attachment 5)
3 March 2018	
	Sightseeing, Ballarat or Melbourne City (at own expense)
4 March 2018	
8am	Depart on SkyBus Airport Express Departing Southern Cross Station Reference No. W142420592E7F7A87F24621 (Attachment 6) Note: This service departs Southern Cross Station every 10 minutes and the bus ride takes approx.. 45-50 mins to the Airport.
9am	Arrive Melbourne Airport
11:25am	Depart Melbourne Airport SQ238

Useful Contact Information:

National Centre for Farmer Health: 03 5551 8533 (Monday to Friday)
 Dr Susan Brumby: 0417 338 316
 Mohammad Abid Hussain: +91-7608879665



E-TICKET ITINERARY, RECEIPT AND TAX INVOICE

PASSENGER NAME: MOHAMMAD ABIDHUSSAIN/
 FOR: 1 x ADULT ONEWAY
 TICKET NUMBER: 254380
 BOOKING NUMBER: 419861
 DATE OF ISSUE: 11/01/2018

FROM Tullamarine Airport

ON Sun 25/02/2018. Please proceed to our bus stop in the T4 Multistory Car Park, Ground Floor, Bus Bay 14. Please note that this is a new bus stop - see map below. Your Airport Shuttlebus is due to depart **the Airport** at 0845 hrs.

Setdown: BALLARAT RAILWAY STATION
 BALLARAT

Fare: AUD\$33.64
 GST: AUD\$3.36
 Total: AUD\$37.00

THIS TICKET ISSUED SUBJECT TO TERMS AND CONDITIONS :-

Conditions of Travel:

Transport, services and the accompanying ticket (ticket) are provided or issued as the case may be by Airport Shuttlebus ABN 16 255 835 006 ("ASB") on these terms and include the conditions of contract, any schedules and our full terms and conditions on our website and (where consistent with these terms) notices in a ticket and any fare and time table booklets and/or notices on display.

1. Subject to the provisions of the Transport Act 1983 ASB reserves the right to cancel or vary any services it provides as it sees fit.
2. ASB is not a common carrier and reserves the right to refuse to carry any passenger, luggage or goods without providing a reason.
3. No conditions of travel other than that endorsed on a ticket will be recognised. Verbal promises by booking agent, clerk or otherwise will not be recognised.
4. ASB reserves the right, in the event of a ticket or booking cancelled by a passenger to charge a cancellation fee. ASB's refund policy is detailed in the full terms and conditions detailed on our website.
5. Each paying passenger is allowed free of charge 2 pieces of luggage with a maximum linear dimension of 66 inches (i.e. length and width and depth). If the luggage exceeds these restrictions subject to available space it will be carried by ASB, though ASB may charge an extra amount for such luggage. **Please assist the driver by placing your luggage in the trailer.**
6. Tickets are fully transferable and are valid for a period of 12 months from the date of purchase. ASB will provide a full refund on a fare paid less fare used basis, less an administration fee of \$10.00 on any unused sector, providing the ticket is presented within 12 months of the date of the purchase.
7. Except as otherwise provided by these terms, to the extent permitted by law any liability of ASB or any other operator for a breach of any provision of or term implied by Div 2 of part V of the Trade Practices Act 1974 (Cth) (as amended) or equivalent state legislation shall not exceed resupply of the service in question or payment of the cost of resupply.
8. Under no circumstances shall ASB be responsible for any claim, loss or damage suffered by a passenger caused by use of the service by the passenger or the purchase of a ticket by the passenger, including without limitation loss or damage caused by delay, cancellation of the service or abandonment during the course of a service, accident, mechanical break down, loss of luggage, burglary, theft or fire, or any other act or neglect of ASB's servants, agents or employees acting within the course of their employment.

Please Note All changes to this Itinerary must be made to the office prior to travelling.

AIRPORT SHUTTLEBUS SERVICE Office Hours : Mon-Fri 8:30AM TO 5:30PM Sat 9:00am - Noon

Telephone : (03) 5333 4181

Airport Shuttlebus website : www.airportshuttlebus.com.au

Email : enquiries@airportshuttlebus.com.au

Thank you for travelling with Airport Shuttlebus

A report on 5-days intensive training programme at National Centre for Farmer Health, Hamilton, Australia

I have attended 5-days intensive training program from 26 February to 2 March, 2018 on Agricultural Health and Medicine (Unit course HMF701; Trimester 1, 2018) at National Centre for Farmer Health (NCFH), Hamilton, Victoria, Australia.

This unit, designed by NCFH, addressed the health and safety concerns encountered by the agricultural workforce in rural and remote areas. The lecture series and their related activities were discussed about the common causes of diseases, mental illness and work related injury that adversely affect the health and well-being of the human resource in agricultural industries, including obesity, diabetes, cancers, zoonotic infections, physical trauma, behavioural health, addiction and agricultural safety. Increasing knowledge of these factors could be adopted to improve the effectiveness of current strategies aimed at improving the health condition of farming communities.

TRAINING SCHEDULE

Day 1: Monday 26 February 2018

- Welcome address CE of Western District Health Service, Hamilton
- Agricultural health and medicine
- Brief personal introductions
- Agriculture today and discussion on issues facing agriculture in the next decade
- Public perceptions and farming populations
- Farm dangers
- Agricultural respiratory health
- Welcome address by Hamilton – Southern Grampians Shire Council and visit of colonial Australian Art Exhibition/Gallery

Day 2: Tuesday 27 February

- Health assessment (Blood glucose/BP/cholesterol measurements/weight/height)
- Health assessment and occupational history
- Performing health assessment, PiKo-6 tests
- Veterinary chemicals
- Australian zoonoses
- General practice in farming communities
- Study Time (preparation for Assessment 1)

Day 3: Wednesday 28 February

- Agricultural tour (Hamilton livestock exchange and Mepungah Pastoral Farm visit)

- Agricultural surgery, skin cancer and farm trauma
- Rural emergency medicine
- Agricultural cancers
- Agricultural chemicals and label interpretation

Day 4: Thursday 1 March 2018

- Psychosocial conditions
- Activity: DASS-21 questionnaire
- Suicide and mental illness management
- Addiction in agricultural and rural settings
- Assessment 1: Quiz
- Personal protection equipment
- Dinner at Blue Malt Restaurant, Hamilton

Day 5: Friday 2 March

- Musculoskeletal injuries and ageing
- Agricultural ergonomics and manual handling
- Agricultural health co-morbidities
- Group work, TV advt. and the year 2030
- AgriSafe™
- Summary and farewell

Assessments over CloudDeakin

- Group work – due date 15 April 2018
- Unit test – due date 29 April 2018
- Written review – due date 20 May 201

DETAILED TRAINING PROGRAMME

Day 1: Monday 26 February 2018

A warm welcome was addressed by Rohan Fitzgerald, the CE of Western District Health Service to all the 18 participants come from different parts of Australia. On the very first day of the training programme, 5 lectures were delivered from 9 a.m. in the morning till 4:30 p.m. in the evening amid the tea and lunch breaks. In the evening hours, we were invited to visit colonial Australian Art Exhibition at Hamilton Gallery, where the Southern Grampians Shire Council and Deakin University greeted and welcomed all of us and a brief tour to the art gallery was made.

Lecture series

- **Agricultural health and medicine**

Prof Susan Brumby, Director of National Centre for Farmer Health, Hamilton introduced the training course *Agricultural Health and Medicine* (course code HMF701) and presented overall course structure/goals, importance of agricultural health and medicine, and how it could make difference between rural and urban health provision, etc. She raised some health issues faced by agricultural populations and pointed out how changing agricultural practices may affect health, wellbeing and safety. Thereafter, during the activity period, we introduced ourselves and interacted with participants.



Along with Rohan Fitzgerald, the CE of Western District Health Service and Prof Susan Brumby, Director of National Centre for Farmer Health, Hamilton during visit of colonial Australian Art Gallery

- **Agriculture today**

Mr Bill Hamill, the CEO of Rural Industries Skill Training talked about the changing scenario in Australian agricultural setting. He analysed the economic impact of agriculture and its role in country's development. He explained nicely about the agricultural workforce and their range of age group (old generation >65, baby boomers

+50, generation X 28-40 years old, and generation Y 6-28 years old) and their interest in agriculture. He also raised concern about the bigger farm size but lesser margins as well as sustainability of farming as a career choice. During the activity period, he discussed on issues facing agriculture in the next decade.

- **Public perceptions and farming populations**

Prof Susan Brumby (Director, NCFH, Hamilton) talked about history of Australian farming, perceptions and stereotypes affecting the work – described farming and some of the challenges globally and predicted workforce crises. She categorised high risk population groups such as men, children, women, elderly, seasonal/migrant workers, etc. She introduced and outlined Sustainable Farm Families (SFF) program. The SFF vision is to improve the health, wellbeing and safety of farm families as farmers are (i) getting older, (ii) working harder and longer, (iii) relying more on family members for extra labour, and (iv) experience high injury rates, illness and premature death. The SFF program encourages farmers to view farm family health as part of the ‘triple bottom line’ of farm reporting. She simply referred to as ‘people, planet and profit’ – all three are dependent on each other for success and sustainability.

- **Farm dangers**

Prof Susan Brumby (Director, NCFH, Hamilton) moved the discussion to agricultural machinery, agricultural environments, animal handling, implements and their dangers, epidemiology of farming fatalities and serious injury, and risks & occupational hazards in agricultural setting. She detailed the components of a safe agricultural workplace, such as 1. Eliminate the hazard through engineering, administration, and substitution; 2. Minimize and control the safety and health risk by (i) engineering through safe guards, (ii) administrative means, (iii) substitution of risky substances or processes for safer ones; 3. Regulation and enforcement; 4. Education and training for safe and healthful behaviour; and (5). Application of personal protection equipment (PPE).



The effect of poor health on farmers, families, farms and communities (Brumby Susan, Policy launch presentation: Rural directions for a better state of health; November 2005; Echua, VIC.)

- **Agricultural respiratory health**

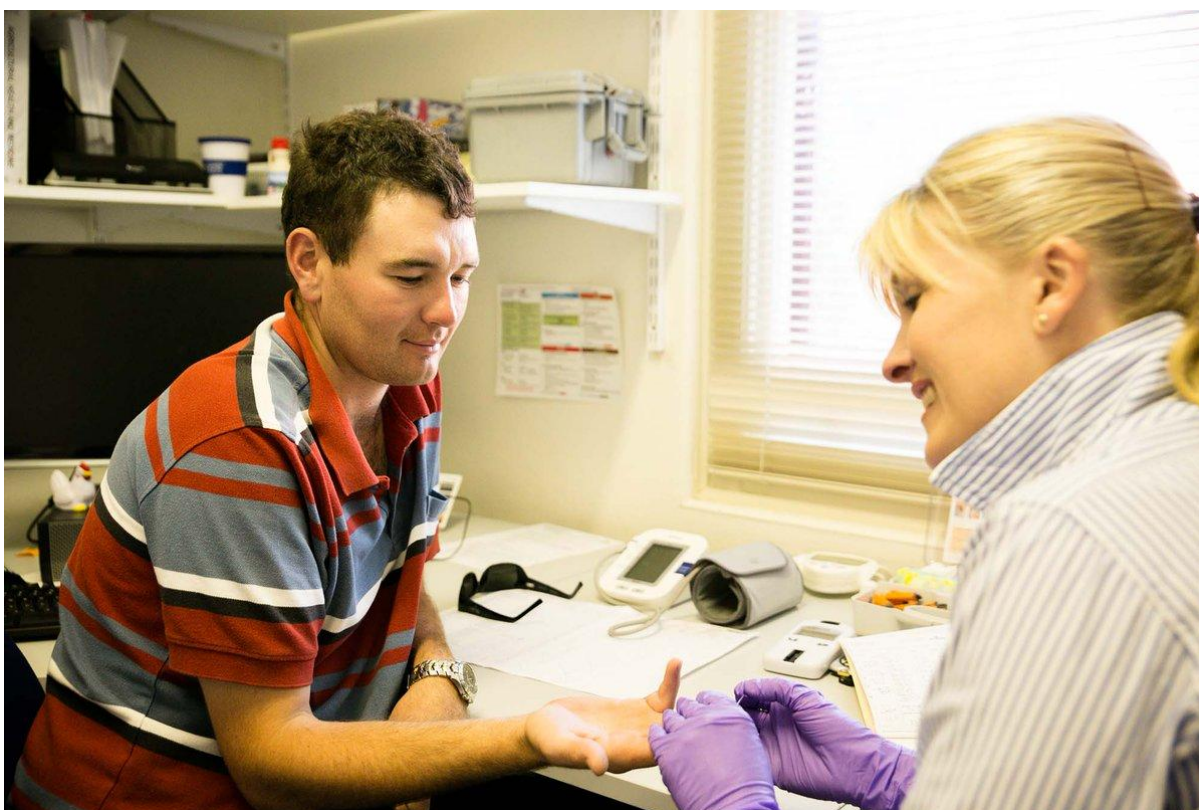
Dr Andrew Bradbeer, Principal Physician at Manse Medical in Hamilton presented a detailed account of agricultural respiratory hazards such as organic dusts, infectious agents, non-organic inhalants, pesticides, asphyxiants (CO₂ & methane), and toxic gases (fumigants, H₂S, ammonia, CO and welding) and their effect on health. He also talked about types of respiratory conditions common to the agricultural workforce such as zoonotic, chemical and environmental, etc. He mentioned 5 respiratory diseases (viz., chronic obstructive, congestive cardiac failure, diabetes complications, angina, and asthma) which could be prevented hospitalisations if managed at early stage. Finally, he briefly described about testing and diagnosis of respiratory illness. In most simple terms, he clarified that *protection* and *better practice* is equivalent to *prevention* of respiratory diseases.

Day 2: Tuesday 27 February

- **Health assessment**

In the morning hours from 8:00 to 9:30 a.m. all the participants had to undergo the health checkup. For this test, we were informed to fast from 10 p.m. till in the next day morning. After the completion of test, breakfast was provided.

Three clinicians undertook the assessments including Tam Phillips, RN AgriSafe™ Clinician who explained the results of our health assessment which included various measurements such as weight, height, % visceral fat, BP, blood glucose and lipid studies, vision and PiKo 6 respiratory testing. The test results were explained and interpreted along with suggested tips for working with farmer groups to ensure successful assessments.



AgriSafe™ Clinician Tam Phillips conducting physical health assessment

- **Health assessment and occupational history**

AgriSafe clinician Tam Phillips delivered her talk after the completion of physical health assessment. She explained what are the steps involved in taking the occupational history of the farmer while conducting health assessment. She cautioned what to do when any sign of concern is noticed and whom to approach for further follow up.

- **Veterinary chemicals**

Dr Kathryn Robertson, veterinarian at Livestock Logic talked about common veterinary chemicals (e.g., biological products, antibiotics, hormones, vaccines and adjuvants) and its impact on human health when exposed via inhalation, skin contact, eyes or mucous membranes, and needle stick, etc. She detailed about health hazards, potential dangers of accidental adjuvants and needle stick injuries, and what are the most appropriate injection techniques to safeguard the workforce. She provided material safety data sheets (MSDS) on needle stick injuries – risk and recommended treatments.

- **Australian zoonoses**

Dr Kathryn Robertson continued her talk on common Australian zoonoses such as anthrax, brucellosis, leptospirosis, Q-fever, hydatid disease, scabby mouth, tetanus, ringworm, listeriosis, rabies, etc. She talked in details about mode of transmission, symptoms, diagnosis, prevention and treatment of zoonotic diseases.



Safe vaccination: needle stick injury could be avoided by proper animal handling

- **General practice in farming communities**

Dr Sue Robertson, a General Practitioner in rural and remote Australia, gave a lecture on common conditions encountered in rural general practice. Conditions more common in small rural communities compared with city are (i) more skin diseases and cancers, (ii) more depression, anxiety, (iii) more pregnancy related cases, (iv) more circulatory diseases, and (v) less URTI, less cough cases. Rural patients were found with overweight, older, alcohol issues, smoking.

She detailed about five domains of general practice, which represents the critical areas of knowledge, skills and attitudes necessary for competent unsupervised general practice. She discussed about the challenges of living and working as a health professional in a rural community, and difficulties faced in evidence based screening and health care.

- **Study Time!**

One hour from 4:30 to 5:30 p.m. was spared for the preparation for Assessment 1 (to be held on Day 4).

Day 3: Wednesday 28 February

- **Agricultural tour (Hamilton livestock exchange and Mepungah Pastoral)**

A tour to local saleyards (livestock exchange) and a local mixed-enterprise farm was arranged in the morning hours. Bus started around 8:15 a.m. and returned back to National Centre for Farmer Health, Hamilton around 12:45 p.m.

Mr Chris Dahlenburg – the Manager gave outline of saleyards and took us for a short tour where a sheep auction was underway. He informed us that Hamilton Regional Livestock Exchange is one of Australia's busiest with approximately one million sheep and 50,000 cattle sold annually. Sales are held weekly every Wednesday, while in peak season (end of November and March) lambs are sold on a Wednesday and sheep on a Thursday. The Hamilton livestock exchange is also leading with the latest technology for livestock identification so animals can be traced over their lifetime.

Then, we travelled to Mepungah Pastoral where Nick and Yvonne explained about safe working of silos, sheep shearing, sheep yards, tractors, and chemical shed and safe pesticide disposal system.



On-going auction of livestock at Hamilton livestock exchange where buyers and sellers are trading



Tracey Hatherrell NCFH explaining about working safely with silo and field bins



Health hazards ranging from strains and sprains through to degenerative joint and muscle damage, and broken bones are common in sheep shearers. A safe working environment can minimise chances of injury and illness



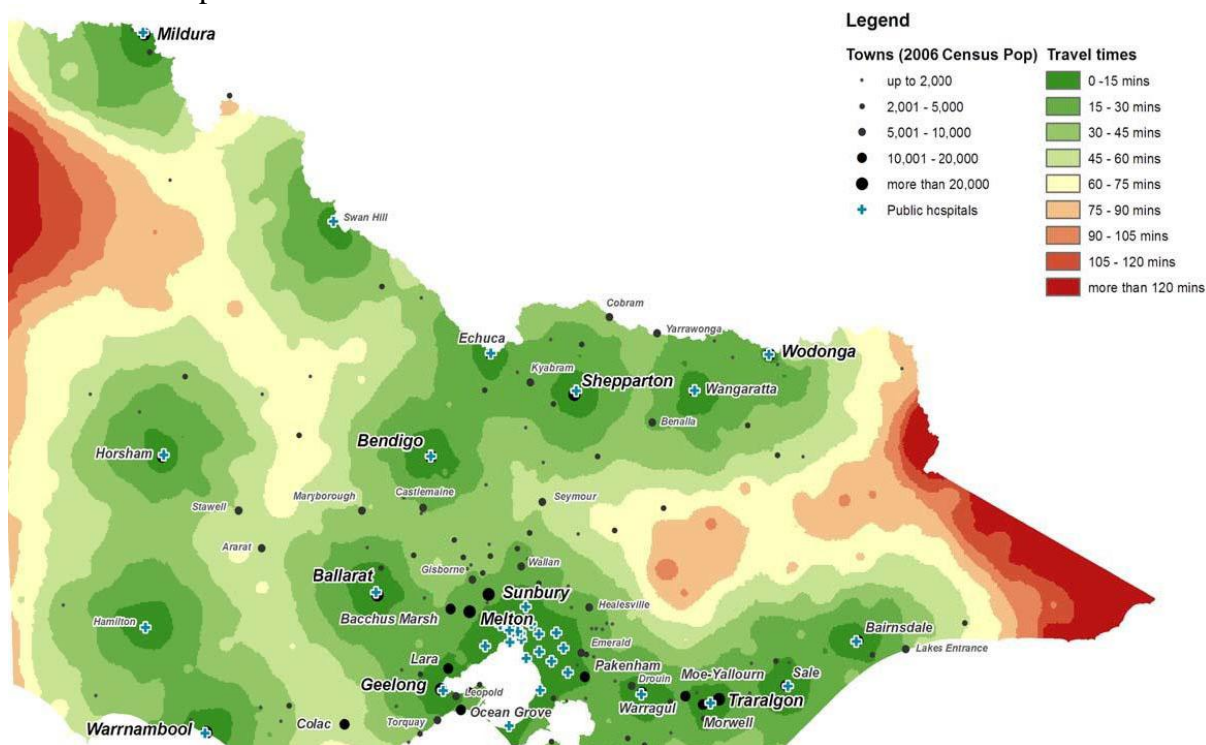
Safe storage of pesticides in a secured location and their disposal should be managed properly to reduce hazards

- **Agricultural surgery, skin cancer and farm trauma**

Mr Stephen Clifforth – general surgeon, shared more than 27 years of practical experience on treating agricultural injuries through a pictorial lecture. He discussed different types of traumatic agriculture injuries encountered in rural and remote settings and methods of preventing farm injury and recovery of trauma. He also highlighted several notable cases of skin cancers (which are common in farming populations) and their surgical treatment.

- **Rural emergency medicine**

Associate Professor Tim Baker– an Emergency Physician and Director of Centre for Rural Emergency Medicine, talked about (i) importance of emergency responses in rural and remote settings, (ii) importance of education of health emergencies, remote trauma responses and first aid training, (iii) response times and extrication difficulties encountered by emergency rescue services such as ambulance/emergency services/air ambulance/patient transfer in rural Australia.



Travel times to nearest public hospital with emergency department in Victoria



- **Agricultural cancers**
Conjoint Clinical Associate Professor Ian Collins, Medical Oncologist delivered his presentation on common types of cancers encountered in agricultural populations, their epidemiology, diagnosis and treatment. He talked about the social and financial impact of cancer-treatment challenges in remote and farming locations. He also discussed how cancer detection and treatment could be improved for rural/remote and farming populations.
- **Agricultural chemicals**
Dr Jacqueline Cotton, Researcher and Lecturer in Rural Health, presented her talk on types of agricultural chemicals such as organochlorines, organophosphates and carbamates, their mode of action and exposure risk associated with them, e.g. reproduction, cancer, neurological development, etc. She discussed about risk management during storage and safe use of pesticides. During the activity period, we learnt how to follow Label interpretation.

Day 4: Thursday 1 March

- **Mental health**
Tristan Brumby-Rendell, Senior Psychologist, presented the very complex topic in a simplified manner. He discussed the epidemiology, biology and causes of anxiety, stress, psychosis and depression. Then, he described the biological factors and environmental determinants that increase the risk and impact of mental illness in rural farming environments compared with urban counterparts. In the end, he outlined link between mental and physical health, and basics of mental health services and interventions in rural/remote communities.
In the activity period, we carried out DASS-21 (Depression, Anxiety, Stress Scale) questionnaire highlighting the quantitative measures of distress or depression and anxiety.



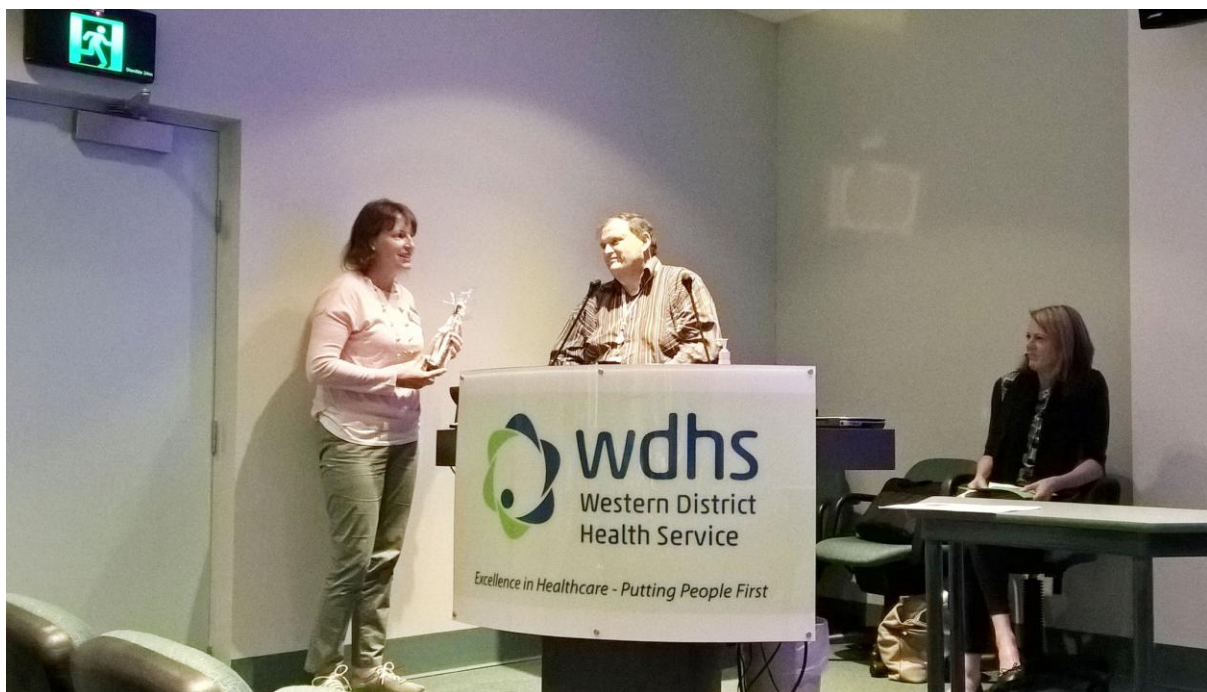
Tristan Brumby-Rendell, the Senior Psychologist during the DASS-21 activity

- **Suicide and mental illness management**

Tristan Brumby-Rendell continued his talk on another very important issue, i.e. suicide. He enlisted factors which compel someone to take extreme steps and danger signs to look for. Such as a sense of hopelessness/indecisiveness, loss of interest or purpose, statements and threats and avoidance of social or public events (social withdrawal), physical disability, sleep problems, financial loss, extreme events and animal diseases, etc. The protective factors that reduce the risk are family, religion, bonds, pets, etc. He detailed about the prevention strategies (health promoting behaviours) for the above condition as (i) guide of problem solving, (ii) address main symptoms: sleep, appetite, energy, worry, thoughts, (iii) exercise and goal directed activity, (iv) stress reduction and relaxation, (v) professional intervention: medication, risk, therapy, and (vi) support with optimism and understanding.

- **Addiction in agricultural and rural settings**

Prof Rodger Brough, consultant with Turning Point Drug and Alcohol Centre's Drug and Alcohol Clinical Advisory Service (DACAS), gave a lecture on substance abuse in rural and farming communities and diseases associated with it. He highlighted the link between substance abuse and mental health, physical complications and co-morbidities. Finally, he presented prescriptions and drug abuse, treatments and interventions.



One of participants presenting a gift as a token of appreciation to Prof Rodger Brough for the nice talk

- **Assessment 1: at 2:30 to 3:30 p.m.**

Multiple Choice Quiz based on Day 1 and Day 2 lecture materials; allotted time 45 min. Content: 25 multiple choice questions; Grading and weighting (20% total mark for unit)

- **Personal protection**

Tam Phillips, Caroline Sheridan and David Sullivan

All of three introduced Personal Protective Equipment (PPE) in a fascinating way for the prevention strategies for agricultural injury/illness particularly respiratory. Respiratory hazards include dust, bacteria, moulds, fungi, viruses, pollens, welding fumes, solvents,

animals dander and agrichemicals, etc. They presented various examples of the protection required for various situations and showed that PPE should be practical, comfortable, convenient in use and affordable. Tests done to determine if a respirator can achieve an adequate face seal as every face is different and no one mask can fit every face. Generally, we hear in the 20 – 20,000 Hz range (cycles per second). Noise levels greater than 85dB averaged over an 8 hours period, places persons at risk of hearing loss. During the activity period, they demonstrated how to manage noise and prevent noise induced hearing loss.



One of participants undergoing demonstration of Personal Protective Equipment (PPE) Fit Test

- **Dinner at local restaurant, Blue Malt, Hamilton at 8:00 p.m.**



Day 5: Friday 2 March

- **Musculoskeletal injuries and ageing**

Ms Tania Aitken, the Chief Physiotherapist, presented on common agricultural practices and their impact on musculoskeletal health. She explained the musculoskeletal structures that can be injured and cause pain and dysfunction due to causative actions like sustained postures, bending/twisting under overload, repetitive use, direct trauma, prolonged poor joint posture, sudden unguarded movement, pars defect or fracture, and disc inflammation or prolapsed, etc. Generally, musculoskeletal injuries have a past; to manage them effectively one needs to understand the whole picture: past, present and future in context. She suggested some common agricultural ailments of the upper and lower body including the big 3 no-no's for the back: bending, twisting and holding breath.

- **Agricultural ergonomics and manual handling**

Sarah Baker, Chief Occupational Therapist, detailed the principles of ergonomics and manual handling in agricultural settings. She explained that manual handling covers a wide range of activities including lifting, pushing, pulling, holding, throwing and carrying. It also includes repetitive tasks such as packing, typing, assembling, cleaning and sorting, using hand-tools, and operating machinery and equipment. She talked about the risk factors related to manual handling injuries and guided on how these could be minimized using the hierarchy of risk control and the resources available to assist in minimizing and managing farm and manual handling injuries.

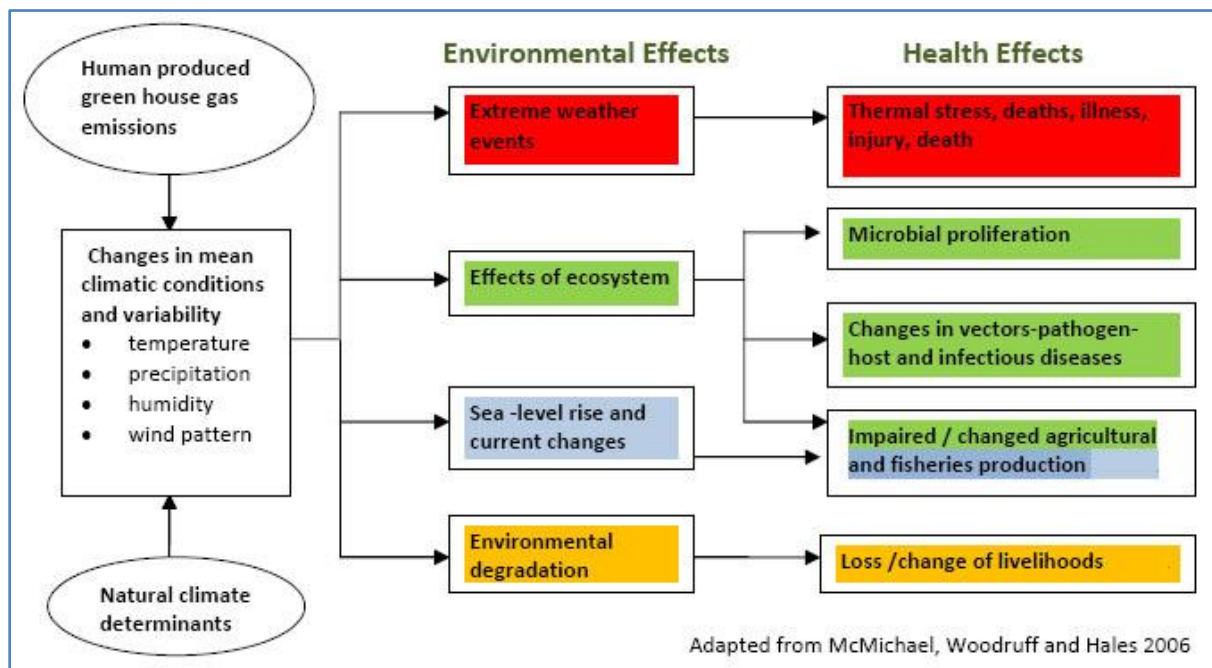


Tania Aitken demonstrating the use of cupping therapy to one of the participants

- **Agricultural health co-morbidities**

Prof Susan Brumby, Director of National Centre for Farmer Health, presented her talk on most important health issues faced by agricultural communities such as diabetes, cardiovascular disease, neurological diseases, alcohol misuse, uCKD and their risk factors associated with them. She also discussed social, physical and behavioural health effects of co-morbidities, climate, health and wellbeing and psychosocial aspects of farming. In the

end, Professor Brumby recognized the interventions that individuals, health services, communities and organizations could make to reduce these risk factors and asked us to consider these as leaders in agricultural health and medicine. We were then given a task to solve the issues related with ailing farming community and deteriorating environmental conditions. Our group discussed and outlined strategic goals to achieve and bring back a healthy farming community and green environment.



Overall effects of climate change

- AgriSafe™**
 Tam Phillips, RN AgriSafe™ Clinician, presented a detailed talk on the role of AgriSafe™ in improving the health, safety and wellbeing of the agricultural workforce. She also mentioned its history in Australia, eligibility criteria/requirement to become an AgriSafe™ provider and steps of an AgriSafe™ assessment.

<ul style="list-style-type: none"> • Blood glucose • AusDrisk 	<ul style="list-style-type: none"> • Full Cholesterol • TC, HDL, LDL, TRIG, TC/HDL ratio 	<ul style="list-style-type: none"> • Blood pressure • Pulse • O2 saturations
<ul style="list-style-type: none"> • Height • Weight • Body mass index • Body fat% 	<ul style="list-style-type: none"> • Cholinesterase testing • Pesticide exposure & agrichemical use assessment 	<ul style="list-style-type: none"> • Respiratory assessment PiKo – 6 • Fit testing of P2 Dust Mask
<ul style="list-style-type: none"> • Urinalysis 	<ul style="list-style-type: none"> • Otoscopy • Hearing test 	<ul style="list-style-type: none"> • Skin assessment
<ul style="list-style-type: none"> • Cancer risk and screening status 	<ul style="list-style-type: none"> • Kessler 10 Wellbeing 	<ul style="list-style-type: none"> • Musculoskeletal & balance assessment
<ul style="list-style-type: none"> • Vision review 	<ul style="list-style-type: none"> • Farm safety • Q fever status? 	<ul style="list-style-type: none"> • PPE recommendation

AgriSafe™ program screening and assessments

- **Summary and farewell**

Dr Jacquie Cotton talked about the DeakinSync/CloudDeakin website from where students can access all information related with the current enrollment details such as courses, assessments and results, inbox, library access, communities, help, etc. She demonstrated how to access CloudDeakin over the net and communicate among assigned groups and submit the assignment at Group Locker or give online examination, etc. She also introduced the on-going Graduate Certificate of Agricultural Health and Medicine, which bears 4 credit points (2 core units: HMF701 and HMF702 + 2 electives). Finally, Prof Susan Brumby gave farewell, thanked us for attending, wished us good luck and safe travels.

Assessing the achievement of the unit learning outcomes

Assessment task 1: Multiple-choice test **20%**

One multi-choice test (25 questions) to be completed during the 5 day intensive. Test 1 will be based on lecture material covered during days 1-2.

Assessment task 2: Group development of materials and online participation **25%**

Students work in groups to create a fact-sheet or video on a given Agricultural Health and Medicine related topic or community issue. Fact-sheets or videos are to be developed and useful for agricultural workers and their families, health professionals and researchers. Further information to be provided on CloudDeakin following the 5-day intensive. Students are required to communicate as a group via CloudDeakin and provide peer feedback at the conclusion of the task.

One assignment per group to be submitted via CloudDeakin:

Due Sunday 15 April 2018

Assessment task 3: Cloud (online) multiple-choice test **20%**

Multi-choice test (25 questions each) completed through CloudDeakin. Test will be available online for 7 days for completion. Test 2 will be based on lecture material covered during days 3-5 of the 5-day intensive.

Test completed online. Opens Monday 23 April 2017 12.01am -

closes Sunday: 29 April 2018 11.59pm

Assessment task 4: Written review exercise **35%**

Students are required to choose and critique one of a selection of journal articles provided by the unit chair via CloudDeakin.

Students to complete a 1200 -1500 word structured review. Online submission: **Due: Sunday 20 May 2018**



Group photograph: Prof Susan Brumby (Director of National Centre for Farmer Health, Hamilton), Dr Jacqueline Cotton (Researcher & Lecturer in Rural Health) and Tam Phillips (RN AgriSafe™ Clinician), and participants of the Unit Course HMF701 at NCFH, Hamilton



NATIONAL CENTRE FOR
**FARMER
HEALTH**



Thank you and travel safe!

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The last ppt slide on presentation screen to thank and wish us safe travel to home

PRESS COVERAGE

10 HAMILTON SPECTATOR Saturday March 10 2018

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Finding common ground at NCFH

TARA FRY

THE National Centre for Farmer Health (NCFH) opened its Agriculture Health and Medicine course with a reception at the Hamilton Art Gallery last week, with all students, staff and special guests in attendance.

The postgraduate course is one of the only agriculture and medicine courses in Australia, and is among very few internationally.

Run in partnership with Deakin University, students travelled from all around Australia for the five-day intensive course, which they will continue to study throughout the semester.

NCFH director Susan Brumby said the intensive looked at the context of farmer health such as emergency trauma, farm dangers, zoonotic disease, veterinary and agricultural chemical exposures, mental and emotional wellbeing and much more.

"Professionals recognise that different skills are needed to engage with farming and agricultural communities," Ms Brumby said.

"Understanding their context and some of the unique health, wellbeing and safety issues for farming populations is what the course focuses on.

"It also attracts students from across a variety of sectors and disciplines. So students can leave with a great network of contacts."

Indian student Abid Hussain travelled to Hamilton in the hope of taking new ideas back to his hometown to improve the health of farmers and their crops.

"I live in a community, that strive hard to raise a suitable, profitable crop but its failure is one of the most uninvited common events, which leads to distress in their lives," he said.

"They are the marginal farmers who are uneducated, unskilled and non-professional in their crop cultivation.

"This distress could have been averted thus bringing happiness in their lives, family, and community as a whole," he said.

He was excited to take his new skills back to the community to improve their way of life.

"I hope this course will give me a platform from where I could start working on alleviating the distressed condition of the farmers," Mr Abid said.

Fellow student Gaye Fisher, came from Western Australia to take part in the five-day intensive.

After spending 18 years nursing in small rural areas, she was excited to expand her



ENJOYING the social aspect of the National Centre for Farmer Health Agriculture and Medicine course opening night are (from left) students Peter O'Meara, Southern Grampians Shire Mayor, Mary-Ann Brown and NCFH director Susan Brumby. Photo: BILLY EASSON.

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knowledge of the impact agriculture has on people's health.

"Because I work in a predominantly farming region, I was keen to expand my knowledge and understanding of agriculture's impact on an individual's and the rural community's health," Ms Fisher said.

"This is the only course of its kind to focus solely on farmer health, and rural community wellbeing."

Ms Fisher hoped to take the extra step in her treatment of farmers after completion of the course.

"All I seem to do now is patch the farmer up and send them on their way, and I find that

frustrating," she said.

"I want to positively impact on the poor health outcomes for agricultural people, educating and enabling them to make a significant difference to their own lives.

"Farmers spend thousands of dollars and countless hours making sure machinery is in top working order, livestock is in prime condition, and the enterprise is running efficiently, but neglect their most vital and important asset, themselves."

Hoping to blend both her passions together, Queensland student Holly Brodie said the course appealed to her as she saw the benefits for her working and home life.

"I'm hoping to be able to blend both my passions together and take the knowledge and skills back to my local community, family and workplace," Ms Brodie said.

"To make individuals and groups more aware of how unhealthy lifestyles, through diet, lack of exercise, alcohol misuse and OH&S risks, can be dangerous and counter-productive to themselves, their businesses and the agricultural industry."

The NCFH five-day intensive program is run in partnership with Western District Health Service, Deakin University and the Southern Grampians Shire Council.

A report on 5-days intensive training programme at National Centre for Farmer Health, Hamilton, Australia

I have attended 5-days intensive training program from 26 February to 2 March, 2018 on Agricultural Health and Medicine (Unit course HMF701; Trimester 1, 2018) at National Centre for Farmer Health (NCFH), Hamilton, Victoria, Australia.

This unit, designed by NCFH, addressed the health and safety concerns encountered by the agricultural workforce in rural and remote areas. The lecture series and their related activities were discussed about the common causes of diseases, mental illness and work related injury that adversely affect the health and well-being of the human resource in agricultural industries, including obesity, diabetes, cancers, zoonotic infections, physical trauma, behavioural health, addiction and agricultural safety. Increasing knowledge of these factors could be adopted to improve the effectiveness of current strategies aimed at improving the health condition of farming communities.

TRAINING SCHEDULE

Day 1: Monday 26 February 2018

- Welcome address CE of Western District Health Service, Hamilton
- Agricultural health and medicine
- Brief personal introductions
- Agriculture today and discussion on issues facing agriculture in the next decade
- Public perceptions and farming populations
- Farm dangers
- Agricultural respiratory health
- Welcome address by Hamilton – Southern Grampians Shire Council and visit of colonial Australian Art Exhibition/Gallery

Day 2: Tuesday 27 February

- Health assessment (Blood glucose/BP/cholesterol measurements/weight/height)
- Health assessment and occupational history
- Performing health assessment, PiKo-6 tests
- Veterinary chemicals
- Australian zoonoses
- General practice in farming communities
- Study Time (preparation for Assessment 1)

Day 3: Wednesday 28 February

- Agricultural tour (Hamilton livestock exchange and Mepungah Pastoral Farm visit)

- Agricultural surgery, skin cancer and farm trauma
- Rural emergency medicine
- Agricultural cancers
- Agricultural chemicals and label interpretation

Day 4: Thursday 1 March 2018

- Psychosocial conditions
- Activity: DASS-21 questionnaire
- Suicide and mental illness management
- Addiction in agricultural and rural settings
- Assessment 1: Quiz
- Personal protection equipment
- Dinner at Blue Malt Restaurant, Hamilton

Day 5: Friday 2 March

- Musculoskeletal injuries and ageing
- Agricultural ergonomics and manual handling
- Agricultural health co-morbidities
- Group work, TV advt. and the year 2030
- AgriSafe™
- Summary and farewell

Assessments over CloudDeakin

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Lecture series

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