LIST OF CANDIDATES ENROLLED FOR Ph.D PROGRAM UNDER NCR, IPT, SALIPUR

SL. NO	NAME OF THE SCHOLAR	ENROLLMENT NO	SUPERVISOR(S)
1	Mr. Rajib Lochan Maharana	DSQ03026 (08/02/2019	Prof. Santosh Kumar Mahapatra
2	Mr. Gyanil Kumar Sahu	DSR03004 (13/01/2020)	Dr. Bibaswan Mishra
3	Mr.Saraswati Prasad Mishra	DSS03001 (29.05.2020)	Dr. Bibaswan Mishra
4	Mr. Pradip Das	DSS03008 (17.06.2020)	Prof. Santosh Ku. Mahapatra Dr. Bibaswan Mishra
5	Mr. Mayank Kumar Khede	DSS03009, (17/06/2020)	Dr. Bhabani Sankar Nayak
6	Mr. Chinmaya Panda	DSS03010, (25/06/2020)	Dr. Saroj Kumar Patro Dr. Minaketan Sahoo
7	Mr. Satyabrata Jena	DST03002 27-10-2021	Dr. Amaresh Ch. Sahoo Dr. sujit Dash
8	Mr. Prasanna Parida	DST03003 27-10-2021	Dr. Amiya Kumar Prusty Dr. Saroja Kumar Patro
9	Miss. Nabajyoti Parida	DST03004 12-11-2021	Dr. H.K.Sundeep Kumar, Dr.Mrityunjaya Banerjee
10	Mr. Sridhar Kumar Rath	DSU03004 30-09-2022	Dr. Biswaranjan Mohanty Dr. Sidhartha Sankar Kar
11	Mr. Swasti Sundar Barik	DSU03005 05-12-2022	Dr. Bhabani Shankar Nayak
12	Miss Priyadarshini Mishra	DSU03006 30-09-2022	Dr. H.K.Sundeep Kumar, Dr.Sujit Kumar Sahu
13	Miss B.Supriya	DSU03007 30-09-2022	Dr. Amaresh Chandra Sahoo, Dr. Pravat Kumar Sahoo
14	Miss Suchismita Pani	DSU03008 30-09-2022	Dr. Amaresh Chandra Sahoo, Dr. Satyajit Panda
15	Mr. Prasant Kumar Rout	DSU03009 30-09-2022	Dr. Bhabani Shankar Nayak

Coordinator, NCR
Co-Ordinator
Nodal Centre of Research
IPT, Salipur

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

File No BPUT-XIV-Ph.D/SCH/026/2017-18

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

NO BPUT/R&D/Ph.D/ 807 /2021 Date 29.06.2021

The undersigned is pleased to convey the enrollment and formation of DSC of the following students in Ph.D Programme of the University as per approval of the Research Council of the University (RCU) on 13.02.2021 and subsequent approval of the Hon'ble Vice Chancellor on 12.03.2021

1	Name of the Candidate	RAJIB LOCHAN MAHARANA
2	Fathers / Husband's Name	JAYDEV MAHARANA
3	address for Correspondence	KHUSALIGANJ REMUNA, BALASORE-756019
4	Enrollment No & Date	DSC03026 (08.02.2019)
5	Session (Batch)	2017-18
6	Date of Birth	29.05.1985
7	Faculty	Pharmacy
8	Discipline / Specialization	Pharmacy
9	Research Proposal Proposed	FORMULATION DEVELOPMENT, OPTIMIZATION AND EVALUATION OF SELF-EMULSIFYING DRUG DELIVERY SYSTEMS OF SOME SELECTED DRUGS
10	Name & Address of the Supervisor	:PROF SANTOSH KUMAR MAHAPATRA, PROFESSOR, IPT, SALIPUR
11	Name & Address of the Co-supervisor	:DR SURYAKANTA SWAIN, ASSO PROFESSOR, SIMS, GUNTUR

12 Doctoral Scrutiny Committee for the Student

1. DR. BISWARANJAN MOHANTY, IPT,SALIPUR (Expert Member)
2. DR SUBRAT MALLICK HEAD,SOA UNIVERSITY,BBSR (Expert Member)
3. PROF CH. NIRANJAN PATRO, RIPS,BERHAMPUR(Expert Member)
4. PROF SANTOSH KUMAR MAHAPATRA, PROFESSOR, IPT, SALIPUR (Supervisor)
5. DR SURYAKANTA SWAIN, ASSO PROFESSOR, SIMS, GUNTUR(Co-supervisor)

One of the experts present in each of the DSC meeting shall be chosen as Chairman among the experts by themselves

29.06.2021

PIC, Research & Development
BPUT, Odisha, Rourkela

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No: BPUT-XIV-Ph.D/SCH/066/2018-19

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

NO: BPUT/R&D/Ph.D/ 819 /2021 Date: 02.07.2021

The undersigned is pleased to convey the enrollment and formation of DSC of the following students in Ph.D Programme of the University as per approval of the Research Council of the University (RCU) on 13.02.2021 and subsequent approval of the Hon'ble Vice Chancellor on 12.03.2021.

1.	Name of the Candidate	:GYANIL KUMAR SAHU
2.	Fathers / Husband's Name	:BHISHMA DEO SAHU
3.	Address for Correspondence	:H2-7, KASLIWAL POORVA HOUSING SOCIETY, OPPOSITE- AURANGABAD AIRPORT, AURANGABAD, MOHARASHTRA- 431007
4.	Enrollment No & Date	:DSR03004 (13.01.2020)
5.	Session (Batch)	:2018-19
6.	Date of Birth	:22.09.1985
7.	Faculty	:Pharmacy
8.	Discipline / Specialization	:Pharmacy
9.	Research Proposal Proposed	:FORMULATION DEVELOPMENTA AND CHARACTERIZATION OF PROGRAMMED DRUG RELEASE SYSTEM TARGETED TO COLON FOR ORAL DELIVERY
10.	Name & Address of the Supervisor	:DR BIBASWAN MISHRA, ASSISTANT PROFESSOR, IPT, SALIPUR, CUTTACK-754202

11. Doctoral Scrutiny Committee for the Student:

1. PROF. CH NIRANJAN PATRA, RIPS, BERHAMPUR (Expert Member)
2. DR. BISWARANJAN MOHANTY , IPT, SALIPUR (Expert Member)
3. PROF GURUDATTA PATTNAIK, CENTURIAN ,BHUBANESWAR(Expert Member)
4. DR BIBASWAN MISHRA, ASSISTANT PROFESSOR, IPT, SALIPUR, CUTTACK-754202 (Supervisor)

One of the experts present in each of the DSC meeting shall be chosen as Chairman among the experts by themselves

02.07.2021

PIC, Research & Development
BPUT, Odisha, Rourkela

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No:BPUT-XIV-Ph.D/PHA/008/2019-20

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT /R&D /Ph.D/ 216 / 2020

Date: 02.07.2020

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Chinmaya Panda
2.	Father's / Husband's Name	Bibhuti Bhusan Panda
3.	Address for Correspondence	AT:FAKIRPUR, PO/PS:JAGATPUR, DIST: CUTTACK
4.	Enrollment No. & Date	DSS03010 (25.06.2020)
5.	Department /NCR to Which Admitted	Institute of Pharmacy & Techonology, Salipur
6.	Date of Birth	24.12.1994
7.	Category (SC/ST/GEN)	General
8.	Category of Studentship (Full Time / Part Time / Full Time Special)	Full Time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Bioanalytical Method Development and Validation for Selected Drugs in Biological Matrices using Hplc and High Performance Liquid Chromatography Coupled with Tandem Mass Spectrometry (Lc-Ms/Ms) and its Pharmacokinetics Study
12.	For Sponsored Student (Place of Employment)	NA
13.	Name & Address of the Supervisors	Supervisor:Dr Saroj Kumar Patro, Asso Professor, Dept of Pharmaceutical Analysis, IPT, Salipur Co-Supervisor: Dr Minaketan Sahoo, Asst Prof, Dept of Pharmaceutical Analysis, IPT, Salipur
14.	Doctoral Scrutiny Committee of the Student	1. Principal, IPT, Salipur- Chairperson 2.HOD, Dept of Pharmaceutical Analysis, IPT, Salipur - Co- Chairperson 3 Prof. S K Kanungo, Professor, IPT, Salipur - Member 4.Prof. Biswaranjan Behera, Professor, KMIPS, Rourkela - Member 5. Dr Saroj Kumar Patro, Asso Professor, Dept of Pharmaceutical

02.07.2020

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No:BPUT-XIV-Ph.D/PHA/010/2019-20

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT /R&D /Ph.D/ 212 / 2020

Date: 02.07.2020

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Mayank Kumar Khede
2.	Father's / Husband's Name	O P Khede
3.	Address for Correspondence	G-104, AVINASH PRIDE, HIRAPUR, RAIPUR, CG-492001
4.	Enrollment No. & Date	DSS03009 (17.06.2020)
5.	Department /NCR to Which Admitted	Institute of Pharmacy & Techonology, Salipur
6.	Date of Birth	16.09.1990
7.	Category (SC/ST/GEN)	General
8.	Category of Studentship (Full Time / Part Time / Full Time Special)	Part Time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Development and Characterization of Nanoformulation Based Dosage Form of an Anti-Cancer Drug
12.	For Sponsored Student (Place of Employment)	NA
13.	Name & Address of the Supervisors	Supervisor:Dr Bhabani Shankar Nayak, Asso Prof, Dept of Pharmaceutics, IPT, Salipur
14.	Doctoral Scrutiny Committee of the Student	1. Principal, IPT, Salipur- Chairperson 2.HOD, Dept of Pharmaceutics, IPT, Salipur - Co- Chairperson 3 Prof. Biswaranjan Mohanty, Professor, IPT, Salipur - Member 4.Prof. Bijaya Kumar Sahoo, Professor, IMT, Puri - Member 5. Dr Bhabani Shankar Nayak, Asso Prof, Dept of Pharmaceutics, IPT, Salipur- Principal Supervisor Cum Member Convener

02.07.2020

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No:BPUT-XIV-Ph.D/PHA/009/2019-20

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT/R&D/Ph.D/ 206 /2020 Date: 02.07.2020

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Pradip Das
2.	Father's / Husband's Name	Pulin Das
3.	Address for Correspondence	FLAT NO: 202, MJR SAI HABITAT, PLOT NO-30,31,32,36 &37, SRI RAMANA COLONY, BUPESH GUPTA NAGAR, HYDRABAD
4.	Enrollment No. & Date	DSS03008 (17.06.2020)
5.	Department /NCR to Which Admitted	Institute of Pharmacy & Techonology, Salipur
6.	Date of Birth	15.04.1980
7.	Category (SC/ST/GEN)	SC
8.	Category of Studentship (Full Time / Part Time / Full Time Special)	Full Time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Design, Development and Characterization of Prolonged Released Orodispersible Film of Selected Nsaid Drugs
12.	For Sponsored Student (Place of Employment)	NA
13.	Name & Address of the Supervisors	Supervisor: Dr Santosh Kumar Mahapatra, Prof, Dept of Pharmaceutics, IPT, Salipur Co-Supervisor: Dr Bibaswan Mishra, Asst Prof, IPT, Salipur
14.	Doctoral Scrutiny Committee of the Student	1. Principal, IPT, Salipur- Chairperson 2.HOD, Dept of Pharmaceutics, IPT, Salipur - Co- Chairperson 3 Prof. Biswaranjan Mohanty, Professor, IPT, Salipur - Member 4.Prof. Bijaya Kumar Sahoo, Professor, IMT, Puri - Member 5. Dr Santosh Kumar Mahapatra, Prof, Dept of Pharmaceutics, IPT, Salipur- Principal Supervisor Cum Member Convener 6.Dr Bibaswan Mishra, Asst Prof, IPT, Salipur- Co-Supervisor

02-07-2020

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No: BPUT-XIV-Ph.D/Phar/007/2019-20

Form No.: BPUT/Ph.D-2019/11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA
OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT /R&D /Ph.D/ 148 /2020 Date: 03.06.2020

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Saraswati Prasad Mishra
2.	Father's / Husband's Name	Mr Brahaspati Prasad Mishra
3.	Address for correspondence	Shantivihar Colony, University, Dagamiya, Raipur, Chhattisgarh-492001
4.	Enrollment No. & Date	DSS03001 (29.05.2020)
5.	Department /NCR to which admitted	Institute of Pharmacy & Technology (IPT), Salipur
6.	Date of Birth	31.01.1990
7.	Category (SC/ST/GEN)	General
8.	Category of studentship (Full Time / Part Time / Full Time Special)	Full time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Formulation Development & Characterization of Polymeric Particulate system for Enhanced Antidiabetic and Antihypertensive Activity Using Animal Model
12.	For sponsored student (Place of Employment)	-NA-
13.	Name & Address of the Supervisors	a) Supervisor :Dr Bibaswan Mishra, Asst Professor, IPT, Salipur
14.	Doctoral Scrutiny Committee of the student	1. Principal, IPT, Salipur - Chairperson 2. HOD, Pharmaceutics, IPT, Salipur -Co- Chairperson 3. Prof Bijaya Kumar Sahoo, Professor, IMT, Puri - Member 4. Dr Bhabani Shankar Nayak, Asso.Prof, IPT, Salipur- Member 5. Dr Bibaswan Mishra, Asst Professor, IPT, Salipur Principal Supervisor cum Member convener

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No:BPUT-XIV-Ph.D/012/2020-21

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT /R&D /Ph.D/ 1292 / 2021 Date: 03-11-2021

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	SATYABRATA JENA
2.	Father's / Husband's Name	PRADEEPTA KU JENA
3.	Address for Correspondence	PLOT-10, STAR COLONY, BESIDES LOYLA HIGH SCHOOL, MOINABAD, RR DIST, HYDRABAD
4.	Enrollment No. & Date	DST03002 (27.10.2021)
5.	Department /NCR to which Admitted	Institute of Pharmacy & Technology, Salipur
6.	Date of Birth	09.07.1976
7.	Category (SC/ST/GEN)	General
8.	Category of Studentship (Full Time / Part Time / Ful Time Special)	Part Time
9.	Faculty (Engg /Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	DESIGN DEVELOPMENT AND EVALUATION OF VARIOUS FORMULATIONS FOR ENHANCEMENT OF BIOAVAILABILITY
12.	For Sponsored Student (Place of Employment)	NA
13	Name & Address of the Supervisors	1. DR AMARESH CH SAHOO, IPT, SALIPUR-SUPERVISOR 2. DR SUJIT DASH, IPT, SALIPUR- CO-SUPERVISOR
14	Doctoral Scrutiny Committee of the Student	1. PRINCIPAL, IPT, SALIPUR-CHAIRPERSON 2. HOD, PHARMACEUTICS, IPT, SALIPUR-CO-CHAIRPERSON 3. DR BISWARANJAN MOHANTY, PROFESSOR, IPT, SALIPUR-EXPERT MEMBER 4. DR ARNABADITYA MOHANTY, PROFESSOR, TPC, BARPALI-EXPERT MEMBER 5. DR AMARESH CH SAHOO, IPT, SALIPUR-SUPERVISOR 6. DR SUJIT DASH, IPT, SALIPUR-CO-SUPERVISOR

03-11-2021

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

File No. BPUT-XIV-Ph.D/010/2020-21

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT /R&D /Ph.D/ 1288 / 2021 Date: 03.11.2021

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	PRASANNA PARIDA
2.	Father's / Husband's Name	UMESH PRASAD PARIDA
3.	Address for Correspondence	AT-RAGHUNATHPARA, PO-R K PATRNA, JAMAPARA, KENDRAPARA
4.	Enrollment No. & Date	DST03003 (27.10.2021)
5.	Department /NCR to which Admitted	Institute of Pharmacy & Techonology, Salipur
6.	Date of Birth	05.06.1990
7.	Category (SC/ST/GEN)	General
8.	Category of Studentship (Full Time / Part Time / Full Time Special)	Part Time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	DEVELOPMENT AND EVALUATION OF NANOPARTICULAR DRUG DELIVERY SYSTEM INCORPORATED WITH PLASMINOGEN ACTIVATORS USED AS A THROMBOLYTIC AGENT
12.	For Sponsored Student (Place of Employment)	NA
13.	Name & Address of the Supervisors	1. DR AMIYA KU PRUSTY, IPT, SALIPUR- SUPERVISOR 2. DR SAOJA KU PATRO,IPT,SALIPUR
14.	Doctoral Scrutiny Committee of the Student	1. PRINCIPAL, IPT, SALIPUR-CHAIRPERSON 2. HOD, PHARMACEUTICS, IPT, SALIPUR-CO-CHAIRPERSON 3. DR B S NAYAK, ASSO PROF, IPT, SALIPUR- Expert Member 4. DR CH NIRANJAN PATRA, PROF, RIPS, BERHAMPUR- Expert Member 5. DR AMIYA KU PRUSTY, IPT, SALIPUR- SUPERVISOR 6. DR SAOJA KU PATRO,IPT,SALIPUR-CO-SUPERVISOR

03.11.2021

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

BPUT-XIV-Ph.D/SCH/011/2020-21

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

No: BPUT /R&D /Ph.D/ 1377/ 2021 Date: 25·11·2021

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	NABAJYOTI PARIDA
2.	Father's / Husband's Name	NIRANJAN PARIDA
3.	Address for Correspondence	AT-KHERAS, HOUSE NO.211, NEAR KALA VIKASH KENDRA, JAGATSINGHPUR
4.	Enrollment No. & Date	DST03004 (12.11.2021)
5.	Department /NCR to which Admitted	INSTITUTE OF PHARMACY & TECHNOLOGY, SALIPUR
6.	Date of Birth	17.11.1994
7.	Category (SC/ST/GEN)	GENERAL
8.	Category of Studentship (Full Time / Part Time / Full Time Special)	FULL TIME
9.	Faculty (Engg./Pharm. Etc.)	PHARMACY
10.	Discipline/ Specialization	PHARMACY
11.	Broad Area of Research Proposed	DEVELOPMENT AND VALIDATION OF NOVEL METHODS FOR THE ESTIMATION OF SOME NEW MOLECULES IN BULK AND PHARMACEUTICAL DOSAGE FORM USING ADVANCED INSTRUMENTAL TECHNIQUES
12.	For Sponsored Student (Place of Employment)	- NA-
13.	Name & Address of the Supervisors	1. DR H K SUNDEEP KUMAR, IPT, SALIPUR (SUPERVISOR) 2. DR MRITYUNJAY BANERJEE, IPT, SALIPUR(CO-SUPERVISOR)
14.	Doctoral Scrutiny Committee of the Student	1. PRINCIPAL, IPT, SALIPUR – CHAIRPERSON 2. HOD, PHARMACEUTICAL CHEMISTRY, IPT, SALIPUR - CO-CHAIRPERSON 3. DR ANJAN KUMAR, PROF, RIPS, BERHAMPUR – EXPERT 4. DR SATYABRATA SAHU, DEP, CTC – EXPERT 5. DR H K SUNDEEP KUMAR, IPT, SALIPUR (SUPERVISOR) 6. DR MRITYUNJAY BANERJEE, IPT, SALIPUR(CO-SUPERVISOR)

25.11.2021

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA
ROURKELA

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT-XIV-Ph.D/SCH/016/2021-22/ 876 /2022

Date: 27.10.2022

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Sridhar Kumar Rath
2.	Father's / Husband's Name	Late Bhikari Charan Rath
3.	Address for correspondence	AT/PO: SASANGA, BADAMBADI, CUTTACK
4.	Enrolment No. & Date	DSU03004 (30.09.2022)
5.	Department /NCR to which admitted	Institute of Pharmacy and Technology, Salipur
6.	Date of Birth	02.06.1973
7.	Category (SC/ST/GEN)	General
8.	Category of studentship (Full Time / Part Time / Full Time Special)	Part Time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Formulation Development Of Biopolymer /Biopolymer Mimics Composite Films For Wound Healing
12.	For sponsored student (Placeof Employment)	-NA-
13.	Name & Address of the Supervisors	1.Supervisor : Dr Biswaranjan Mohanty, Professor, IPT, Salipur 2.Co-supervisor:Dr Sidhartha Sankar Kar, Asst Prof, IPT, Salipur
14.	Doctoral Scrutiny Committee of the student	1.Principal, IPT, Salipur-Chairperson 2. HOD, Pharmacy, IPT, Salipur-Co-Chairperson 3.Prof Gurudutta Patnaik, Professor, CUTM, Bhubaneswar-Member 4.Prof Bhabani Shankar Nayak, Asso Prof, IPT, Salipur-Member 5.Dr Biswaranjan Mohanty, Professor, IPT, Salipur-Member convener 6. Dr Sidhartha Sankar Kar, Asst Prof, IPT, Salipur-Joint Member Convener

The Chairperson, DSC is requested to hold the meeting of the DSC for assigning course work and other actions as per Ph.D regulation 2019.

27-10-2022

PIC, Research & Development,
BPUT, Rourkela

Hd. Qrs. : BPUT Campus, Chhend, Rourkela - 769 015, Ph. : (0661) 2482556, 558, 559, 560, Fax : (0661) 2482562

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA
ROURKELA

BPUT-XIV-Ph.D/SCH/17/2021-22

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

No. BPUT /R&D /Ph.D/ 05 /2022

Date: 04:01:2022

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	SWASTI SUNDAR BARIK
2.	Father's / Husband's Name	SHARAT KUMAR BARIK
3.	Address for Correspondence	AT: MALLIKADEIRUR, NAYAKANIDIHI, BHADRAK
4.	Enrolment No. & Date	OSU03005 (05.12.2022)
5.	Department /NCR to which Admitted	INSTITUTE OF PHARMACY & TECHNOLOGY, SALIPUR
6.	Date of Birth	05.03.1996
7.	Category (SC/ST/GEN)	GENERAL
8.	Category of Studentship (Full Time / Part Time / Full Time Special)	PART TIME
9.	Faculty (Engg./Pharm. Etc.)	PHARMACY
10.	Discipline/ Specialization	PHARMACY
11.	Broad Area of Research Proposed	DEVELOPMENT OF SELF NANOEMULSIFYING DRUG DELIVERY SYSTEMS OF POORLY PERMEABLE DRUGS
12.	For Sponsored Student (Place of Employment)	NA
13.	Name & Address of the Supervisors	DR BHABANI SHANKAR NAYAK, ASSO PROF, IPT, SALIPUR
14.	Doctoral Scrutiny Committee of the Student	1. PRINCIPAL, IPT, SALIPUR – CHAIRPERSON 2. HOD, PHARMACY, IPT, SALIPUR- CO-CHAIRPERSON 3. PROF CH. NIRANJAN PATRA, RIPS, BERHAMPUR- MEMBER 4. PROF SNIGDHA PATTNAIK, SPS, SOA UNIVERSITY, BHUBANESWAR- MEMBER 5. DR BHABANI SHANKAR NAYAK, ASSO PROF, IPT, SALIPUR- SUPERVISOR

The Chairperson, DSC is requested to hold the meeting of the DSC for assigning course work and other actions as per Ph.D regulation 2019.

04.01.2022
PIC(R&D), BPUT

Hd. Qrs. : BPUT Campus, Chhend, Rourkela - 769 015, Ph.: (0661) 2482556, 558, 559, 560, Fax : (0661) 2482562

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA
ROURKELA

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No. BPUT-XIV:Ph D/SCH/018/2021-22/ 856 /2022

Date 21.10.2022

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Priyadarshini Mishra
2.	Father's / Husband's Name	Bamdev Mishra
3.	Address for correspondence	AT: ATHANGA, PO: SIDHESWARPUR, KONDARPUR, CUTTACK
4.	Enrolment No. & Date	DSU03006 (30.09.2022)
5.	Department /NCR to which admitted	Institute of Pharmacy and Technology, Salipur
6.	Date of Birth	30.03.1990
7.	Category (SC/ST/GEN)	General
8.	Category of studentship (Full Time / Part Time / Full Time Special)	Full Time
9.	Faculty (Engg /Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Development and Evaluation of Wound Healing Activity of Novel Polyherbal Formulation Against Glycogen Synthase Kinase-3B Protein in Diabetic Induced Rat With Reference of Molecular Docking Study
12.	For sponsored student (Place of Employment)	-NA-
13.	Name & Address of the Supervisors	1.Supervisor : Dr H K Sandeep Kumar, Asst. Prof, IPT, Salipur 2.Co-supervisor:Dr Sujit Kumar Sahu, Asst Prof, IPT, Salipur
14.	Doctoral Scrutiny Committee of the student	1.Principal, IPT, Salipur-Chairperson 2. HOD, Pharmacy, IPT, Salipur-Co-Chairperson 3.Dr Jnyanaranjan Panda, Professor, RIPS, Berhampur-Member 4.Dr Mrityunjay Banerjee, Asso Prof, IPT, Salipur-Member 5.Dr H K Sandeep Kumar, Asst. Prof, IPT, Salipur-Member convener 6. Dr Sujit Kumar Sahu, Asst Prof, IPT, Salipur-Joint Member Convener

The Chairperson, DSC is requested to hold the meeting of the DSC for assigning course work and other actions as per Ph.D regulation 2019.

21.10.2022

PIC, Research & Development,
BPUT, Rourkela

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA
ROURKELA

Form No.: BPUT/Ph.D-2019/ 11
(vide Ph.D.-12.3(g) & Ph.D.-12.4(a))

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No. BPUT-Ph D/SCH/019/2021-22/ 878 /2022 Date 27.10.2022

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph D Programme of the University as per approval of the competent authority

1	Name of Candidate	B Supriya
2	Father's / Husband's Name	Sujit Kr Bank
3	Address for correspondence	AT/PO CHHANIPUR, SALIPUR, CUTTACK
4	Enrolment No. & Date	DSU03007 (3) 09.2022)
5	Department /NCR to which admitted	Institute of Pharmacy and Technology, Salipur
6	Date of Birth	10.03.1991
7	Category (SC/ST/GEN)	General
8	Category of studentship (Full Time / Part Time / Full Time Sponsored)	Part Time
9	Faculty (Engg./Pharm. Etc.)	Pharmacy
10	Discipline/ Specialization	Pharmacy
11	Broad Area of Research Proposed	Enhancement Of Dissolution and Oral Bioavailability Of Poorly Water Soluble Drugs By Using Different Techniques
12	For sponsored student (Place of Employment)	-NA-
13	Name & Address of the Supervisors	1 Supervisor Dr Amaresh Chandra Sahoo, Asst Prof, IPT, Salipur 2 Co-supervisor Dr Prabhat Kumar Sahoo, Asst Prof, IPT, Salipur
14	Doctoral Scrutiny Committee of the student	1 Principal, IPT, Salipur-Chairperson 2 HOD, Pharmacy, IPT, Salipur-Co-Chairperson 3 Dr Anindita Behera, Asso Prof, SOA University, Bhubaneswar-Member 4 Dr Sunil Kumar Kanungo, Prof, IPT, Salipur- Member 5 Dr Amaresh Chandra Sahoo, Asst Prof, IPT, Salipur-Member convener 6 Dr Prabhat Kumar Sahoo, Asst Prof, IPT, Salipur-Joint Member Convener

The Charperson, DSC is requested to hold the meeting of the DSC for assigning course work and other actions as per Ph D regulation 2019

27.10.2022

PIC, Research & Development,
BPUT, Rourkela

Hd. Qrs. : BPUT Campus, Chhend, Rourkela - 769 015, Ph (0661) 2482556, 558, 559, 560 Fax (0661) 2482562

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA
ROURKELA

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No: BPUT-X/V-Ph.D/SCH/020/2021-22/ 844 /2022 Date 21.10.2022

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph.D Programme of the University as per approval of the competent authority.

1.	Name of Candidate	Suchismita Pani
2.	Father's / Husband's Name	Jagannath Pani
3.	Address for correspondence	At/Po: Pirahat Bazar, Bhadrak
4.	Enrolment No. & Date	DSU03008 (30.09.2022)
5.	Department /NCR to which admitted	Institute of Pharmacy and Technology, Salipur
6.	Date of Birth	01.05.1980
7.	Category (SC/ST/GEN)	General
8.	Category of studentship (Full Time / Part Time / Full Time Special)	Part Time
9.	Faculty (Engg./Pharm. Etc.)	Pharmacy
10.	Discipline/ Specialization	Pharmacy
11.	Broad Area of Research Proposed	Enhancement of Dissolution and Bioavailability of Certain Poorly Water Soluble Drugs
12.	For sponsored student (Place of Employment)	-NA -
13.	Name & Address of the Supervisors	1. Supervisor : Dr Amaresh Chandra Sahoo, Asst Prof, IPT, Salipur 2. Co-supervisor: Dr Satyajit Panda, Asst Prof, IPT, Salipur
14.	Doctoral Scrutiny Committee of the student	1.Principal, IPT, Salipur-Chairperson 2. HOD, Pharmacy, IPT, Salipur-Co-Chairperson 3.Dr Ch Niranjan Patra, RIPS, Berhampur-Member 4.Dr Biswaranjan Mohanty, Ipt, Salipur-Member 5.Dr Amaresh Chandra Sahoo, Asst Prof, IPT, Salipur-Member convener 6. Dr Satyajit Panda, Asst Prof, IPT, Salipur-Joint Member Convener

The Chairperson, DSC is requested to hold the meeting of the DSC for assigning course work and other actions as per Ph.D regulation 2019.

21.10.2022

PIC, Research & Development,
BPUT, Rourkela

Hd. Qrs. : BPUT Campus, Chhend, Rourkela - 769 015, Ph. : (0661) 2482556, 658, 559, 560, Fax : (0661) 2482562

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA
ROURKELA

Form No.: BPUT/Ph.D-2019/ 11
[vide Ph.D.-12.3(g) & Ph.D.-12.4(a)]

OFFICE ORDER ON FORMATION OF DSC FOR THE RESEARCH SCHOLAR

No BPUT-XIV-Ph D/SCH/021/2021-22/ 872 /2022 Date 27.10.2022

The undersigned is pleased to convey the Enrolment and formation of DSC of the following student in Ph D Programme of the University as per approval of the competent authority.

1	Name of Candidate	Prasant Kumar Rout
2	Father's / Husband's Name	Kamalakanta Rout
3	Address for correspondence	AT/PO ANANTAPUR, VIA SORO, BALASORE
4	Enrolment No & Date	DSU03009 (30 09 2022)
5	Department /NCR to which admitted	Institute of Pharmacy and Technology, Salipur
6	Date of Birth	04 11 1982
7	Category (SC/ST/GEN)	General
8	Category of studentship (Full Time / Part Time / Full Time Special)	Part Time
9	Faculty (Engg, Pharm, Etc.)	Pharmacy
10	Discipline Specialization	Pharmacy
11	Broad Area of Research Proposed	Formulation Development of Microparticulate Drug Delivery System for Management of Hypertension
12	For sponsored student (Place of Employment)	-NA -
13	Name & Address of the Supervisors	1 Supervisor Dr Bhabani Shankar Nayak, Asso Prof, IPT, Salipur
14	Doctoral Scrutiny Committee of the student	1 Principal, IPT, Salipur-Charperson 2 HOD, Pharmacy, IPT, Salipur-Co-Charperson 3 Prof Snigdha Pattnaik, Professor,SOA University, Bhubaneswar-Member 4 Prof Anajan Kumar Mohapatra, Prof , RCPHS, Berhampur-Member 5 Dr Bhabani Shankar Nayak, Asso Prof, IPT, Salipur-Member convener

The Chairperson, DSC is requested to hold the meeting of the DSC for assigning course work and other actions as per Ph D regulation 2019

27.10.2022

PIC, Research & Development,
BPUT, Rourkela

OFFICE OF THE PRINCIPAL,
INSTITUTE OF PHARMACY & TECHNOLOGY, SALIPUR,
AT/P.O-SALIPUR, DIST-CUTTACK, ODISHA, PIN-754202.

N O T I C E

No. IPT/02/134/2022 Date. 01/10/2022

It is informed to all staffs, students, Alumni & MSME that as per mail from MSME Govt. Of India, ministry of MSME is launching "MSME Idea Hackathon 2.0 (Theme based) under MSME Innovative scheme (Incubation component) on **2nd October, 2022**. As our institute is recognised as Host Institute under MSME Innovative scheme of Ministry of MSME, our staffs, students, Alumni, MSME eligible to submit new innovative ideas for getting financial support.

So any staff, students, Alumni or MSME having their own idea related to incubation, registered on MSME idea Hackathon 2.0 site & upload their idea through our institute **on or before 14.10.2022**.

Dr Prabhat Kumar Sahoo
Co-ordinator
MSME Incubation Center
IPT, Salipur.

1/10/22
Dr Santosh Kumar Mahapatra
PRINCIPAL,
IPT, Salipur.
PRINCIPAL
Institute of Pharmacy & Technology
Salipur, Dist-Cuttack-754202, Odisha

01/10

Copy to:

- Student Notice Board/MSME file/Notice file/Guard file.

List of 257 Idea Proposals approved during 2nd PMAC Meeting of MSME Innovative Scheme held on 22.06.2022 & Announced by Hon'ble Prime Minister on the occasion of International MSME Day at Vigyan Bhawan on 30th June, 2022

S. No	Ref. No.	Institute Name	State	Incubatee Name	Incubatee Category	Title of proposed idea/ innovation	Sector
1	IDEATN 004986	AARUPADAI VEEDU INSTITUE OF TECHNOLOGY, a constituent college of Vinayaka Missions Research Foundation ,Deemed to be University	Tamil Nadu	Vijay Jayaraman	Start Up /Employed/Others	Efficient Power Management System by Implementing Solid State Transformer	Power
2	IDEAKR 004381	ACHARYA INSTITUTE OF TECHNOLOGY	Karnataka	Mithun Ambalal Shah	Entrepreneurs/MSME	Flushable and Biodegradable Sanitary pads	Healthcare
3	IDEAGJ 003662	Adani Institute of Infrastructure Engineering	Gujarat	SaxenaTushar	Entrepreneurs/MSME	One-Click Sprinkler technology to control fire Sprinkler manually through AUTOVOLTZ-Softwar-Console from any place	Service
4	IDEATN 003621	Adhiyamaan College of Engineering	Tamil Nadu	M SONALI	Start Up /Employed/Others	Auto Irrigation, Soil Monitoring and Control for Better Crop Yield and Soil Quality	Agriculture
5	IDEATN 003503	Adhiyamaan College of Engineering	Tamil Nadu	VADHIRAJAN ACHUTHAN	Start Up /Employed/Others	Cloud Based distance Relay with Fault location Mapping on Google Map	Power
6	IDEATN 003857	Adhiyamaan College of Engineering	Tamil Nadu	BAALADHINES H A	Start Up /Employed/Others	Solar Membrane Distillation -Solar based Membrane distillation works on the principle of temperature and vapor pressure difference i.e.., Membrane distillation is a thermal driven separation process.	Misc.
7	IDEATN 003657	Adhiyamaan College of Engineering	Tamil Nadu	G YOGESH	Start Up /Employed/Others	Smart Sensing Technique for Health Monitoring of Existing Bridges	Misc.
8	IDEAKL 004510	ADI SHANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGYK	Kerala	Manju Suresh	Start Up /Employed/Others	Asegurar Vida (Low cost egg sorting machine for hatcheries)	Agriculture

S. No	Ref. No.	Institute Name	State	Incubatee Name	Incubatee Category	Title of proposed idea/ innovation	Sector
96	IDEAJH 003821	INDO DANISH TOOL ROOM	Jharkhand	Kapil Suhane	Entrepreneurs/MSME	Digitising the Waste Management Supply Chain	Service
97	IDEAJH 003596	INDO DANISH TOOL ROOM	Jharkhand	BHOGESH KUMAR	Entrepreneurs/MSME	Design Development of System entitled- Miners-Rescuer-System (MRS) for Underground (U/g)-Mines.	Misc.
98	IDEATS 005116	Institute of Aeronautical Engineering	Telangana	Varanasi Sai Hrishikesh	Student	Well Being- an advanced machine learning and artificial intelligence tool to analyze and assess the state of mind of an individual	Service
99	IDEAOD 003216	INSTITUTE OF PHARMACY & TECHNOLOGY SALIPUR	Odisha	SIDHARTHA SANKAR KAR	Start Up /Employed/Others	A new and improved industrially viable manufacturing process for Gabapentin	Healthcare
100	IDEATS 004819	International Crops Research Institute for the Semi Arid Tropics	Telangana	Varsha Yogesh Bhole	Entrepreneurs/MSME	AI/ML-based Fruit Quality Evaluation and Shelf-Life Prediction System through Contactless and Non-destructive Approach	Agriculture
101	IDEAKR 005097	International School of Management Excellence	Karnataka	MilindBalbhim Kulkarni	Start Up /Employed/Others	Biogas Generation from Floral Waste and Subsequent Quality Improvement	Power
102	IDEAPB 004487	ISF College of Pharmacy	Punjab	Rohit Bhatia	Start Up /Employed/Others	Development of Electrochemical Device for Detection of Glucose levels in Human Saliva	Healthcare
103	IDEAPB 004170	ISF College of Pharmacy	Punjab	Pooja Chawla	Start Up /Employed/Others	Synthesis of Acetaminophen (Paracetamol) in one step A novel approach	Healthcare
104	IDEATN 005018	Jerusalem College of Engineering	Tamil Nadu	Santhanakrishnan Ramakrishnan	Start Up /Employed/Others	Design and Implementation of ECO friendly GPS based fully automatic seed sowing machine	Agriculture
105	IDEATN 004168	Jerusalem College of Engineering	Tamil Nadu	JOHN JEBARATHINA M N	Start Up /Employed/Others	Air conditioner cum Air Sterilizer	Healthcare

विकास आयुक्त का कार्यालय
(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)

निरमाण भवन, मौलाना आजाद रोड,
नई दिल्ली-110 108

OFFICE OF THE DEVELOPMENT COMMISSONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA
Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

By E mail

No. 17(2)/ MSME Innovative/PMAC/2021-22 **Dt.: 30.06.2022**

Subject: Minutes of 2nd PMAC Meeting of "MSME Innovative Scheme" a component under MSME Champions Scheme held on 22.06.2022 - reg.

I am directed to forward the Minutes of 2nd Project Monitoring and Advisory Committee (PMAC) Meeting of "MSME Innovative Scheme" a component under MSME Champions held on **22.06.2022** under the Chairmanship of AS&DC (MSME) for information and necessary action at your end.

(V.Ramakrishnan)
Deputy Director

Encl.: As above

To

1) Additional Secretary, Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, Room 258-A, Udyog Bhawan, New Delhi – 110011, Tele: 23062983, E-mail : dawras@ias.nic.in
2) Economic Advisor (IFW), Ministry of MSME, Udyog Bhawan, Ph: 011- 23063433, Email: saurabh.sameera@gov.in
3) Representative of DST, Department of Science & Technology, Technology Bhavan, Mehrauli Road, New Delhi-110 016 Ph: 011 - 26510068, Email: dstsec@nic.in
4) Shri. Shubhendu Kumar, Sr. Technical Director, NIC, O/o DC(MSME), Nirman Bhawan, New Delhi 110011 Ph. 011-23061158 Email: shub@nic.in
5) Dr. TV Prabhakar, Head, MSME Centre of Excellence IISC, CV Raman Rd, Bengaluru, 560012, Ph: 080-22932967, Email: msmecoe.blr@gmail.com office.msmecoe@iisc.ac.in
6) Dr. A. Bandyopadhyay, IIT, Kanpur: e-mail: director@iitk.ac.in,
7) Director General, CII, The Mantosh Sondhi Centre, 23, Institutional Area, Lodi Road, New Delhi - 110003, Ph: 011 - 24629995 , Email: ch@cii.in
8) Director General, FICCI Federation House Tansen Marg, New Delhi 110001
E-mail:ficci@ficci.com, cmsme@ficci.com
9) One Member from each sector of Domain Expert Selection Committee (DESC) :
   (i) Prof. T K Bandyopadhyay, IIT-Kharagpur, tapas@rgsoipl.iitkgp.ac.in- Power Sector.
   (ii) Dr. D satyanath, NIN, purnedsathyanath@gmail.com -Health Sector
   (iii) Dr. D. Ramesh Professor, Agri- Engineering, bioenergy@tnau.ac.in - Agriculture Sector
   (iv) Prof. V. V. Goud, , IITGuwahati, ,inchargetic@iitg.ac.in;vvgoud@iitg.ac.in; -Service Sector
   (v)Shri Vineet Tomar, Technical Director / Scientist – E, vineet.tomar@nic.in, Misc Sector

Copy To:

1) PPS to AS&DC (MSME), Email : shailesh.singh@gov.in ; dcmsme@gov.in
2) PS to JS (AFI), Ministry of MSME, Udyog Bhawan, New Delhi, Email: js.afi-msme@gov.in, ateesh.singh@nic.in
3) PS to DDG (DPS), O/o DC (MSME); E-mail: dprasad.s@nic.in
4) PS to JDC (Shri Bharat Prakash), O/o DC(MSME), MoMSME-Mail: bharat.prakash@gov.in
5) Director (T&P), Ministry of MSME, Udyog Bhawan, New Delhi. Email E-mail: yinamra.mishra@gov.in

Government of India
Ministry of Micro, Small & Medium Enterprises
(MSME Champions Scheme Division)

Minutes of Meeting of 2nd Project Monitoring & Advisory Committee (PMAC) Meeting of MSME Innovative Scheme (a component under MSME Champions Scheme) under the Chairmanship of AS & DC (MSME)

The 2nd Project Monitoring & Advisory Committee (PMAC) meeting was held under the Chairmanship of AS & DC (MSME) on **22.06.2022 at 3:00 PM** through Hybrid Mode (Physical/VC) of "MSME Innovative Scheme", a component under MSME Champions Scheme. *The list of participants is at **Annexure-I**.*

2. In the opening remarks, Shri Ateesh Singh, Joint Secretary (AFI), Ministry of MSME welcomed all the participants and briefed the committee members and set out the agenda of the meeting.

3. Shri Vinamra Mishra, Director (T&P), Ministry of MSME apprised the members about the agenda of the meeting through a PPT, including guidelines of MSME Innovative Scheme and financial assistance covering all the sub-components i.e., Incubation, Design, IPR and approvals required under these components.

4. The various activities undertaken under the three **Sub-components** after launch of the MSME Innovative Scheme on **10th March, 2022** by Hon'ble Minister of MSME, were appraised to the Committee.

4. Shri Vinamra Mishra, Director (T&P) appraised the committee about the various steps undertaken in the MSME Idea Hackathon 2022. The MSME Innovative scheme was launched on 10th March, 2022 along with MSME Idea Hackathon - 2022 by the Hon'ble Union Minister for MSME. Innovative Ideas were invited from Innovators, MSMEs, individuals and students during 10th –24th March 2022 from all over India.

5. The ideas received through MIS portal https://innovative.msme.gov.in were segregated into five verticals i.e., Agriculture, Healthcare, Power & renewable energy, Services and Miscellaneous. These were further evaluated by five respective Domain Expert Selection Committees (DESCs) comprising of experts from the Industry/Academia/Government. A total of 5126 ideas were uploaded on the portal, out of which 2591 ideas were shortlisted by Host Institutes (HIs) and subsequently 2499 ideas were forwarded to the DESC for evaluation. After detailed evaluation by respective sectoral DESCs, 257 top ideas @ 10% from each sector were placed before the PMAC for approval.

6. Chairman/AS&DC (MSME) discussed on the ideas placed before the PMAC and sought opinions from the experts. The experts opined that the ideas shortlisted are of good potential for development & may be supported as per the scheme provisions. He appreciated the efforts undertaken by the programme team officers & interacted with experts from all sectors.

7. The agenda items requiring approval of the committee members were discussed in the meeting and decisions taken thereof are tabulated below:

S. No.	Agenda Item	PMAC Decision/Remarks
Agenda 1: Approvals under Incubation component		
A.	Approval of 257 Ideas received under MSME Idea Hackathon-2022 after sector-wise evaluation by Domain Expert Selection Committee Experts (DESC) along with financial approval for GOI assistance for development of Ideas- ***Annexure-A.***	Committee approved 257 Ideas received under MSME Idea Hackathon-2022 for GoI assistance of Rs. 2962.45 lakh as per Annexure-***A.***
B.	Approval of 52 eligible HIs, as per the applications received through MIS Portal as on date and duly recommended by the IAs after verification- ***Annexure-B***	Committee approved 52 eligible institutions to act as Host Institutes (HIs) as per ***Annexure-B***
Agenda 2: Approvals under Design component		
A.	Appraisal of revised/new MoUs with IAs as per the new scheme guidelines. Status of MoUs received: 12 ***Annexure-C***	Chairman/AS&DC (MSME) directed to complete the process of signing of MoU with remaining Implementing Agencies at the earliest.
B.	**(i) Approval of the following for promoting design related activities by IAs.** ➢ **Awareness Programme**: One day programme (Minimum 30 participants), Physical: @ Rs. 70,000/- **(No. of Awareness Programme by IAs: 87) - Annex-C** **Total amount – Rs. 60.90 lakh (on actual)** **(ii) Approval for** ➢ **Regional/ State/ National Workshop by Implementing Agencies:** Multi-day Workshops (Maximum 5 Days) with (Minimum 50 participants.) Physical: Rs. 5 Lakh per day (May be prorated) (No. of Regional/ State/ National Workshop by IAs: 5) -**Annex-C** **Total amount – Rs. 50.00 lakh (on actual) for 2 days 5 workshops.**	(i) Committee approved 87 One day Awareness programme for promoting design related activities by IAs as per **Annex-C for** an amount of Rs. 60.90 lakh. The Committee decided that the IAs may involve the nearby HIs/IPFCs/MSME-DIs/TCs for participation. (ii) Committee approved 7 (5 + 2 additional) Regional/ State/ National Workshop to be organized by Implementing Agencies (IAs) as per **Annex-C** along with GoI grant for an amount of Rs. 70.00 lakh, so that all the regions may be covered. (*These additional 2 Workshops may be organized by MANIT, Bhopal & MNIT Jaipur).*

C.	**Approval for MSME Chair professor under Design component** ***As per the provisions in the existing guidelines of the Design Component, under phase two, the following will be provided:*** *"MoMSME Chair in all the IAs who will be entrusted with the responsibility of promoting research and innovations in Design in MSMEs through studies, fellowships, scholarships, product-specific problem solving and the like".* ***PMAC may take a view on one component on the provision mentioned in phase two under Design component i.e. MoMSME Chair including modalities***	Committee gave in-principle approval to develop a concept paper on appointing MSME Chair professor under Design component by seeking inputs from IAs (IISc/IITs/NITs). The same may circulated amongst stake holders before placing in next PMAC for approval.
D.	**Provisioning Student Design Hackathon under Design Component.** Existing provision under Design Component: ***Student Design Project*** *– This subcompoment can be availed by all the students of any institution accredited by AICTE/UGC. The proposed student design project must facilitate student participation into helping MSMEs achieve Design capabilities. Student participation can be achieved in two ways – MSME can approach students or Student can offer their services to MSMEs. MSME will submit the proposal for Student Design project to the Implementation Agency under the Design Scheme, through the portal of the scheme.* ***PMAC may take a view on the modalities.***	Committee gave in-principle approval for conducting Student Design Hackathon under Design Component in line with MSME Idea Hackathon-2022. Guideline for the same be prepared and submitted for approval.
Agenda 3: Approvals under IPR Scheme		
A.	Approval for allocation of funds to MSME-DIs as IPFC under OAE Head for implementation of MSME Innovative Scheme-IPR Component as per **Annex-D** (i) Rs. 2.73 crore for reimbursement of 186 Patents. (ii) Rs. 1.12 Crore for reimbursement of 1196 trademarks (iii) Rs. 0.08 Crore for 53 Design reimbursements. (iv) Rs. 0.22 Crore for 11 GI reimbursement cases. (v) Rs. 1.08 Crore for 154 Awareness Programme (vi) Rs. 0.22 Crore for 56 Nos. of Webinars. (vii) Rs. 0.85 Crore for 17 National/regional	Committee approved an amount of Rs. 8.00 Crore for reimbursement of various activities under IPR component. The Budget for the same may be used from the RAMP Budget. In this connection during FY 2022-23 under RAMP (MSME Champions Scheme) an amount of Rs. 178.05 crore in

	workshop (viii) Rs. 1.68 crore by 32 IPFC for IP professional services Total Funds requirement Rs. ***8.00 Crore approx*** Re-appropriation from GIA-G. Funds already sanctioned **Rs. 1.92 Crore**	GIA-G & Rs. 44.52 crore in Subsidy Head is available. However, the proposed fund allocations to MSME-DIs are to be given under OAE Head. Therefore, re-appropriation of the funds from GIA-G to OAE Head may be taken. The fund allocated under OAE Head for MSME Champions scheme is Rs. 4.11 crore & the same have been already been sanctioned. *(Ref: As per the MoM of SFC dated 10.09.2021 for MSME Champions Scheme, the provision at sl. 3 ii (b) Additional funding to be taken from RAMP Programme of the Ministry of MSME as and when it is approved by the Cabinet).*
B.	Approval of new MSME-DIs at Visakhapatnam & Dimapur as IPFCs for implementation of IPR activities and discontinuation of MSME-Br. DI, New Delhi (Hqtr.) as now it has been merged with MSME-DI, Delhi.	Committee approved the same.
C.	Approval of following Exposure Visits and Study Tours for learning Best Practices and better implementation of MSME Innovative Scheme : *i.* IP Training for Delegation from M/o MSME in ***October 2022 at Germany by ASSOCHAM*** (Financial requirement – Rs. 26.45 Lakh for delegation of 13 Officials excluding taxes & Air fare) – Detailed proposal at **Annex-E** ***ii.*** Experiential learning tour in ***Japan on Innovation and Technology commercialization under MSME Innovative Scheme by ICRISAT during 2-8 October, 2022.*** (Financial requirement – Rs. 74.40 Lakh excluding taxes & Air fare for delegation of 20 Officials) – Detailed proposal at **Annex-F** **iii.** Industrial Delegation & Study Tour in ***Belgium & Germany from 6-13 November, 2022*** for 7-8 M/o MSME officials. Financial	Committee has approved all 3 proposals along with financial as well as actual Air fare and Daily allowances as per entitlement. Necessary concurrence/tour approval/clearances may be taken as per **Annexure: E, F & G.**

	requirements- Rs.18 Lakh excluding taxes & Air fare – Detailed proposal at **Annex-G**	
Agenda 4		
Implementation of Treasury Single Account (TSA) and Central Nodal Agency Accounts (CNA) for Autonomous Bodies/ CPSES/ Implementing Agencies of M/o MSME with reference to M/o Finance and OM vide No. 3/(17)/PFMS/2022 dated 06.05.2022. *(i) For MSME Innovative Scheme (Incubation, Design & IPR) components under MSME Champions Scheme: CTTC, Bhubaneswar may be nominated as CNA with a dedicated Account in SCB.* *(ii) For MSME Sustainable (ZED) and MSME Competitive (Lean) components under MSME Champions Scheme: QCI may be nominated as CNA with a dedicated Account in SCB.* *(iii) For Digital MSME Scheme: TCIL has been proposed as Implementing Agency (IA) for the draft Digital Scheme guidelines which are under submission for approval of Hon'ble Minister, MSME.* ***OR*** *any other IA engaged with the approval of the competent authority* ***(E-file No. 4021147 File No: 41(1)/Budget/MSMEChampions/2021 is currently with the O/o CCA as on 21.06.2022).***	Committee approved CTTC, Bhubaneswar as Central Nodal Agency Accounts (CNA) for MSME Innovative Scheme (Incubation, Design & IPR) components under MSME Champions Scheme.	

6. Following were the suggestions made by different committee members:

(i) Member from CII, Shri Ashok Saigal, suggested that, the ideas after development may be handholded in association with some good Business School for successful commercialization.

(ii) Dr. H.P. Kumar, FICCI has appreciated the ideas of instituting MSME chair professors & told that this will provide a holistic solution to the problems faced by MSMEs. He also suggested that more exposure visits and study tours for learning best practices and better implementation of Ministry of MSME may be undertaken.

(iii) All the experts from each sector and members from DST, IISc, IIT have agreed for the criteria adopted for selecting the top ideas based on cut off marks on prorata to be supported under the scheme.

The meeting ended with a vote of thanks to the Chair.

***

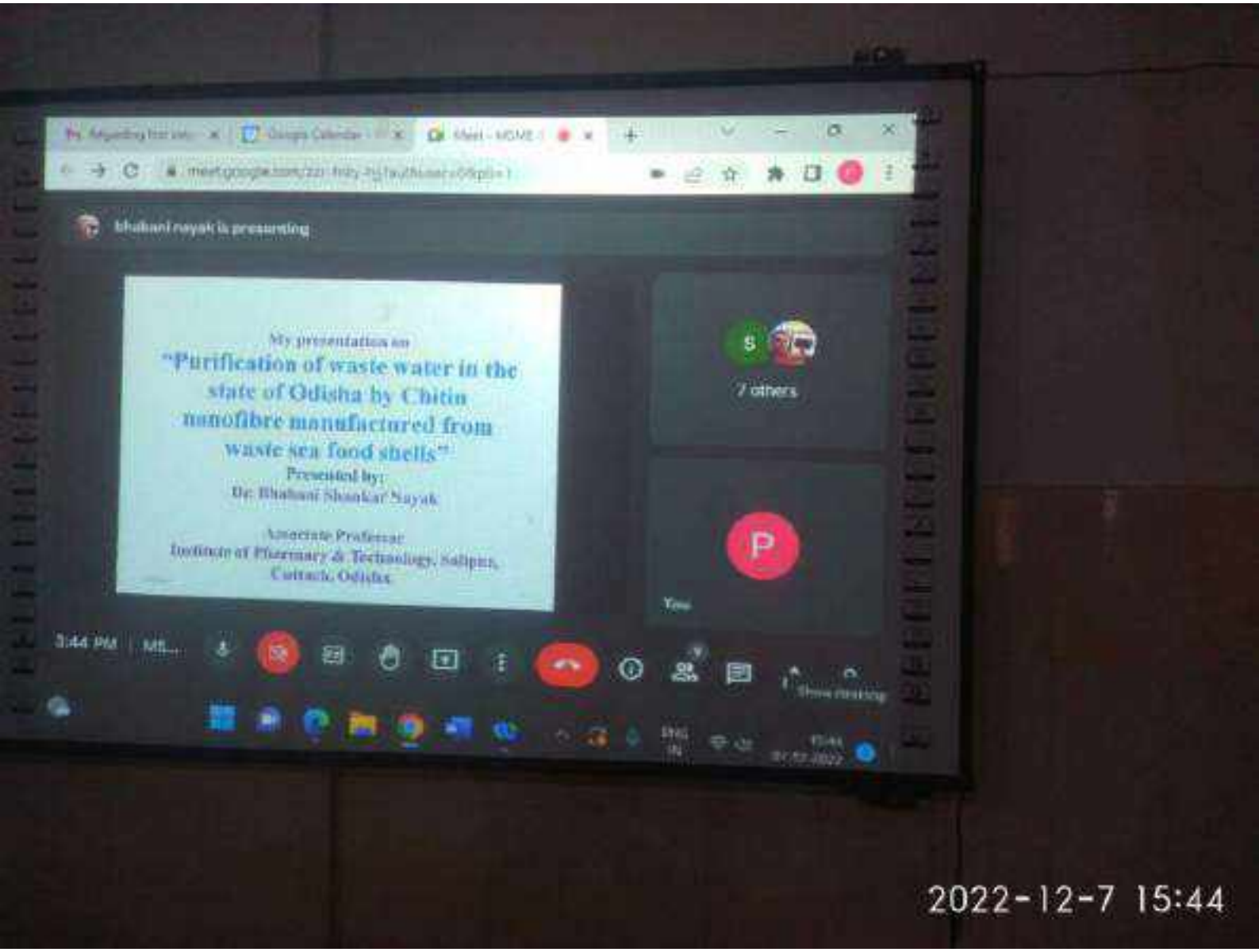
Annexure-I

2nd PMAC meeting of MSME Innovative Scheme comprising Incubation, Design & IPR dated 22.06.2022

List of participants

S. No.	Name	Designation & Organization	Mode
1.	Shri Shailesh Singh	AS&DC, Chairman, O/o DC(MSME), MoMSME	Physical
2.	Shri Ateesh Singh	JS (AFI), MoMSME	Physical
4.	Shri Vinamra Mishra	Director, MoMSME	Physical
5.	Shri Bharat Prakash	JDC, O/o DC(MSME), MoMSME	Physical
6.	Shri JK Sahu	US (IFW), MoMSME	Physical
7.	Sh Ravinder GauR	Scientist -D , DST	Virtual
8.	Shri Rakesh Kumar	Joint Director, O/o DC(MSME), MoMSME	Physical
9.	Shri S.M Jaukhandi	Project Scientist (DESE) , IISc, Bengaluru	Virtual
10.	Shri Prasenjit Sinha	IIT Kanpur	Virtual
11.	Shri T K Bandyopadhyay	IIT-Kharagpur	Virtual
13.	Prof. V. V. Goud	IIT Guwahati	Virtual
14.	Shri Ashok Saigal	Co-Chairman CII	Virtual
15.	Dr H.P Kumor	FICCI, New Delhi	Virtual
16.	Shri Hemant Seth	FICCI, New Delhi	Physical
17.	Shri Dhayan K	DD , MSME-DI – Division, O/o DC(MSME), MoMSME	Virtual
18.	Dr. D. Ramesh	Prof. TNAU, Coimbatore	Virtual
19.	Dr. D Satyanath	Expert, Healthcare Sector, Pune	Physical
20.	Shri V Ramakrishnan	DD , MSME Champion Scheme	Physical
21.	Shri BB Sahoo	Asst Director, O/o DC(MSME), MoMSME	Physical
22.	Shri Subhash Chand	Asst Director, O/o DC(MSME), MoMSME	Physical
23.	Shri SK Saini	Asst Director, O/o DC(MSME), MoMSME	Physical
24.	Shri Gaurav Saini	Asst Director, O/o DC(MSME), MoMSME	Physical
25.	Shri Satish Kumar	Asst Director, O/o DC(MSME), MoMSME	Physical
26.	Shri Manish Vashistha	Asst Director , QCI	Physical

57	IDEARJ003804	Indian Institute of Technology Jodhpur	Rajasthan	ThilakChakaravarthi. E	Student	Developing Endoscope Socket to provide uninterpreted endoscopic visual field to ENT doctor for diagnosing patients with minimal discomfort.	20	15	5	66	Health care
58	IDEATN003026	KPR Institute of Engineering and Technology	Tamil nadu	SENTHIL KUMAR R	Start Up /Employed/Others	A Bio-Medical Device for Health Care Application Design and Development of Polylactic Acid (PLA) Polymer Based Invasive Cannula Sensor to Monitor Patients Invasive Blood Pressure (BP), Temperature , Electrocardiography	13.5	11.475	2.025	65	Health care
59	IDEAOD003216	INSTITUTE OF PHARMACY & TECHNOLOGY SALIPUR	Odisha	SIDHARTHA SANKAR KAR	Start Up /Employed/Others	A new and improved industrially viable manufacturing process for Gabapentin	15	12.75	2.25	65	Health care
60	IDEAUP003282	Inderprastha Engineering College	Uttar pradesh	Aryan Singhal	Student	The Virtual Eye for visually impaired people	15	15	0	65	Health care



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2022-4-7 15:27


2022-12-7 15:16


2022-4-7 16:13

Gmail

Prabhat Sahoo <pravat.200581@gmail.com>

Fw: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

2 messages

Institute Pharmacy & Technology, Salipur <mailipt@yahoo.co.in> Mon, Jul 25, 2022 at 10:42 AM
To: Pravat Sahoo <pravat.200581@gmail.com>

Institute of Pharmacy & Technology, Salipur,
Cuttack, Odisha-754202

----- Forwarded message -----
From: MSME Innovative Scheme <helpline-msme@gov.in>
To: "mailiptsalipur@gmail.com" <mailiptsalipur@gmail.com>
Sent: Saturday, 23 July, 2022 at 07:45:03 pm IST
Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

विकास आयुक्त का कार्यालय
(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)
निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड,
नई दिल्ली-110 108

OFFICE OF THE DEVELOPMENT COMMISSONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA
Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

File No. : 17(2)/ MSME Innovative/PMAC/2021-22 **Date : 23-07-202**

To,

INSTITUTE OF PHARMACY & TECHNOLOGY SALIPUR

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovativ Scheme(Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg..

Sir,

I am directed to inform you that the idea(s) / proposals received from your Institute under the above scheme were considered b the PMAC meeting held on 22/06/2022 The committee has approved this idea(s). The details of approved idea / proposal are a under.

Sl. No.	Name of Incubatee and proposed idea of innovation	Project cost	Amount Sanctioned as GOI Share (Rs. In lakhs)	Incubatee Share (Rs. In lakhs)
1	SIDHARTHA SANKAR KAR , A new and improved industrially viable manufacturing process for Gabapentin	15.000	12.750	2.250

Further, in order to release GoI grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/202dated 9.03.2022 carefully and nomination of CTTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details Click here)

1. CTTC Bhubaneswar has opened Saving A/c in SBI for release of fund to HIs as CNA Account. The contact officer of CTTC, Bhubaneswar is Shri Skrout, 9437965670, skrout@cttc.gov.in

2. All HIs have to inform CTTC, Bhubaneswar about the name of SBI Branch and code, where the Sub Agency (SA) account of HI is to be opened.

3. CTTC, Bhubaneswar will integrate it with CNA account through SBI Banks help

4. HI will open new Zero Balance Current A/c in SBI in the branch shared with CTTC, Bhubaneswar and link with the CNA account.

5. HI shall share the mandate form with CTTC, Bhubaneswar and O/o DC (MSME) through email- schand@dcmsme.gov.in with a copy to ramakrishnan.v@gov.in

Yours faithfully,
(V. Ramakrishnan
Dy. Director

This is an automated message, Do not reply.

Prabhat Sahoo <pravat.200581@gmail.com> Mon, Jul 25, 2022 at 12:36 PM
To: sskar06@gmail.com

Dr.Prabhat Kumar Sahoo
Assistant Professor,
Department of Pharmaceutics,
Institute of Pharmacy & Technology,
Salipur, Cuttack, Odisha, 754202.
Phone-9090894472
[Quoted text hidden]

ANTIDEPRESSANT ACTIVITY OF *CRINUM ASIATICUM*

Parthasarathi Mishra[1*], Aswini Kumar Senapati[2], Sudhansu Ranjan Swain[3], Sujit Dash[4], Suchismita Kar[5]

Abstract

Context: Although Crinum asiaticum Linn. (amaryllidaceae), is a bulbous herb which has a wide geographical distribution in India., possesses diverse pharmacological activities in animals, little is known about its antidepressant activity.

Objective: The present study evaluated the antidepressant activities of hydroalcoholic ethanol extract of bulb of Crinum asiaticum (EECf) using several experimental models

Materials and methods: Adult Wistar albino rats were subjected to antidepressant activity of different animal models such as Forced swim test, Tail suspension test, Locomotor activity. Biochemical estimation of MAO, Estimation of total protein.

Results and discussion: The effects of EECA on forced swim test performance were evaluated. The EECA (400 mg/kg, p.o.) showed dose-dependent significant results in all the methods ($p < 0.001$). EECA (400mg/kg) significantly ($p<0.001$) reduced the brain MAO-A levels compared to respected vehicle treated group.

The phytochemical screening revealed the presence of alkaloid, flavonoids, β-sitosterol, and steroids. LCMS study confirms the presence of lycorine which responsible for the antidepressant activity.

Conclusions: The results of the study for the first time show that the plant possesses neuropharmacological activity. Future research should focus on the identification and the antidepressant activity of the constituents from this plant.

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DOI: - 10.31838/ecb/2023.12.si5.044

Aswini Kumar Senapati

ANTIDEPRESSANT ACTIVITY AND LCMS ANALYSIS OF *CRINUM DEFIXUM*

Parthasarathi Mishra[1*], Aswini Kumar Senapati[2], Sudhansu Ranjan Swain[3], Sujit Dash[4], Suchismita Kar[5]

Abstract

Context: Although Crinum defixum Linn.(amaryllidaceae), is a bulbous herb which has a wide geographical distribution in India., possesses diverse pharmacological activities in animals, little is known about its antidepressant activity.

Objective: The present study evaluated the antidepressant activities of hydroalcoholic ethanol extract of bulb of Crinum defixum (EECD) using several experimental models

Materials and methods: .Adult Wistar albino rats were subjected to antidepressant activity of different animal models such as Forced swim test, Tail suspension test, Locomotor activity. Biochemical estimation of MAO, estimation of total protein

Results and discussion: The effects of EECD on forced swim test performance were evaluated. The EECD (400 mg/kg, p.o.) showed dose-dependent significant results in all the methods ($p < 0.001$). EECD (400mg/kg) significantly ($p<0.001$) reduced the brain MAO-A levels compared to respected vehicle treated group.

The phytochemical screening revealed the presence of alkaloid, flavonoids, β-sitosterol, and steroids. LCMS study confirms the presence of lycorine which responsible for the antidepressant activity.

Conclusions: The results of the study for the first time show that the plant possesses neuropharmacological activity. Future research should focus on the identification and the antidepressant activity of the constituents from this plant.

Keywords: Crinum difixum, antidepressant, ethanolic extract, lycorine

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DOI: - 10.48047/ecb/2023.12.si5a.0358

Aswini Kumar Senapati

Stability Indicating Analytical Method Development And Validation Of Safinamide In Bulk And Its Marketed Pharmaceutical Dosage Form By Uplc

Bipasha Behera[1]*, Uma Shankar Mishra[2] and Sudhir Kumar Sahoo[3]

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Article History: **Received:** 18.06.2022 **Revised:**17.07.2022 **Accepted:** 09.08.2022

ABSTRACT

A new analytical simple, accurate, precise, sensitive, rapid Ultra Performance Liquid chromatography (UPLC) method has been developed and validated for determination of Safinamide in bulk and its marketed pharmaceutical dosage form. Chromatographic separation was achieved on a Endeversil C_{18} ODS (2.1mm x 50mm, 3µm) column, by a mobile phase which consisted of 70% buffer (0.1% Octa sulphonic acid) and 30% Methanol taken in the ratio of 70:30% v/v, maintained pH to 3.0 with ortho phosphoric acid solution along with a flow rate of 0.2 ml/min. The detection wavelength was set at 254 nm. Safinamide was subjected to different stress conditions like acid, alkali, and peroxide, thermal and checked for its specificity, degradation & stability. The method was linear (r = 0.999) at a concentration range of 6-14 µg/ml. The intra and inter day precisions were satisfactory; the relative standard deviations did not exceed 2%. The accuracy of the method was proved; the mean recovery of Safinamide was 98.0-102.0%. The limit of detection and limit of quantitation of Safinamide was found to be 0.6030 µg/ml and 1.8273µg/ml respectively. The method met the ICH/FDA regulatory requirements. The results demonstrated that the method can be applied successfully for routine use in quality control industry and laboratories.

Key Words: Safinamide, UPLC, Accuracy, Precision, Linearity, ICH Guidelines.

Doi: 10.31838/ecb/2022.11.08.026

Bipasha Behera

METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF PREGABALIN BY USING ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY IN API SUBSTANCE AND MARKETED PHARMACEUTICAL DOSAGE FORM

Bipasha Behera[1]*, Uma Shankar Mishra[2] and Sudhir Kumar Sahoo[3]

Abstract

The objective of this study was to develop a simple, sensitive and reproducible method for estimation of Pregabalin by Ultra Performance Liquid Chromatography (UPLC). Pregabalin was separated on Endeversil C18 ODS (2.1 x 50mm, 3µm), using 0.1% Octane Sulphonic acid buffer with pH of 3.0: Acetonitrile (30:70) at the PDA detection of 226nm. Isocratic elution of buffer and acetonitrile was used as a mobile phase with different flow rates, eventually 30:70 v/v buffer and acetonitrile was being set with the flow rate of 0.2 ml per min. Pregabalin was eluted at a run time of 2 mins. The statistical validation parameters such as linearity, accuracy, precision, inter-day and intra-day variation were checked as suggested by ICH recommendations, further the limit of detection and limit of quantification of Pregabalin concentrations were found to be 2.98µg/mL and 9.97µg/mL. Recovery and assay studies of Pregabalin were within 99 to 102% indicating that the proposed method can be adoptable for quality control analysis of Pregabalin in bulk form and Marketed Pharmaceutical dosage form.

Key Words: Pregabalin, UPLC, Method Development, Validation, Accuracy, Precision.

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Bipasha Behera

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RESEARCH ARTICLE

Studies on hypoglycaenic activity of the different extracts of *solanum torvum* root

Jitendra Debata[1], H. K. Sundeep Kumar[2], SA Sreenivas[1]
[1]GNITC-School of Pharmacy, Ibrahimpatnam, Rangareddy-501506, Telangana, India.
[2]Institute of Pharmacy and Technology, Salipur, Cuttack-754202, Odisha, India.
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ABSTRACT:
The objective of the study was to Studies on the hypoglycaemic activity of the different extracts of Solanum torvum (Solanaceae) root extracts on Wister albino rats. Solanum torvum roots were shade dried, powdered, and extracted by the Soxhlet extraction procedure using petroleum ether, chloroform, ethanol, and water. Swiss albino mice were chosen for the acute toxicity studies and follow the OECD guidelines 423. The hypoglycemic activity on adult Wistar albino rats at dose levels of 100, 200, and 400 mg/kg p.o. respectively each using normoglycaemic, glucose loaded, and streptozotocin-induced hyperglycaemic rats. For activity comparison standard drug Metformin (150 mg/kg) was used. Promising results were produced by the ethanol extract among all the tested extracts that are comparable to the reference standard metformin. The study entrenched the scientific foundation of the benefits of this plant in the medication of diabetes and asserts the use of the root of the plant for treating diabetes as demonstrate in folklore remedies.

KEYWORDS: Solanum torvum, hyperglycaemic, normoglycaemic, oral glucose tolerance test (OGTT), streptozotocin, metformin.

INTRODUCTION:
Solanum torvum Sw, syn. *Solanum ficifolium* Ortega (Solanaceae) is a spreading or sprawling shrub. It is found in wet areas in West Bengal, Bihar, the wider part of Odisha, and peninsular India. It is 2-3 m tall, prickles 3-7 mm long, slightly hooked, laterally flattened, scattered on stems, both leaf surfaces, and main veins, sparse on aged and mature growth, all parts pubescent with stellate hairs, sparse on the upper leaf surface, dense on the lower surface [1-4].

The dried powder of the whole plant is used as folk medicine in the treatment of asthma and inflammation[5]. Fresh fruits are used as a sedative, expectorant and anthelmintic [6, 7].

Leaves and root are used as a sedative, antidiabetic[8-17], and diuretic[18] and also possesses antibacterial, analgesic, antipyretic, antimalarial, and antidiarrheal properties [19-23].

The fruits are reported to have a hypoglycemic and antitumor-promoting effect [24, 25] and possess antibacterial, antioxidant, antifungal activity [26, 27]. The leaves of the plant are reported to be used as antiviral, antidiabetic [28, 29]. Ethanol extract of aerial parts of the plant is reported to have antimicrobial and analgesic activity [30]. The presence of campesterol, beta-sitosterol, stigmasterol, chlorogenic, chlorogenon, torvonin A, torvonin B [31-35] and solasodine [36] in the leaves have been reported earlier. Root suspension of *Solanum torvum* used by the tribes of the Ganjam district of Odisha to reduce the blood sugar in the patients with diabetes mellitus and they claim for its promising activity. In the light of the above importance of this medicinal plant, the present investigation was to establish scientific support for the said folklore claim.

MATERIALS AND METHODS:
Plant Materials:
Intact root pieces of solanum torvum were collected during June 2017 carefully from experimental plants inhabiting in forests of the Ganjam district of Odisha, India and authenticated by taxonomists of the Botanical Survey of India, Shibpur, Howrah, West Bengal, India.

A voucher specimen was kept in our laboratory for future reference. After authentication, fresh roots were collected in bulk, washed with normal water to remove adhering dirt followed by rinsing with distilled water and were then dried under a shade and powdered.

Preparation of the extract:
The dried and powdered root (600 g) first defatting with petroleum ether (60-80^0 C) for 48 h was successively extracted with chloroform, ethanol, and water for 48h in a Soxhlet extractor. Following extraction, the liquid extracts were concentrated under reduced pressure to yield dry residues. The percentage yield was calculated to the dried plant material (yield: 7.3 % w/w).

Preparation of the test samples:
The measured quantity of petroleum ether, chloroform, ethanol and water extracts of the root of *solanum torvum* and metformin (150 mg/kg) was suspended in 20% Tween 20 in distilled water and used as a test drug for oral administration.

Maintenance of Animals and approval of the protocol:
All experimental protocols were approved by the Institutional Animal Ethics Committee (IAEC) of the Institute of Pharmacy and Technology (Regd. No. 1053/PO/Re/S/07/CPCSEA). Healthy albino Wistar rats of either sex, weighing 150–200 g body weight were collected from the Institutional animal house for the study. The selected animals were housed in polypropylene cages in standard environmental conditions (temp: 20–25^{0}C; relative humidity: 45-55 % under 12 h light/dark cycle), fed with standard rodent diet for one week to adapt to the laboratory conditions and water *ad libitum*.

Acute toxicity study:
The acute toxicity studies were conducted on Swiss albino mice as per the OECD guidelines 423, [37] where the maximum test dose limit of 2000 mg/kg, p.o., was used. The methods of Ganapathy *et al*., [38] and Shivhare *et al*. were followed [39]. Immediately after dosing, the animals were closely observed for the initial 4 h after the administration and then once daily during the following days. The behavioral changes of animals were closely observed for hyperactivity, ataxia, convulsion, salivation, tremors, and sleep. The animals were kept under observation for 14 days after drug administration to determine the mortality if any. One-twenth, One-tenth, and one-fifth of the maximum tolerated dose (100, 200 and 400 mg/kg, body weight, p.o.) of the different extracts of *solanum torvum* was selected for antidiabetic studies.

Determination of blood glucose levels:
A standardized blood glucose meter was used to measure fasting blood glucose. Blood samples were collected from the tip of the tail at the regular time intervals under mild anesthesia.

Using normoglycaemic rats:
The method of Acharyya *et al*., 2010 was followed [40]. The animals were fasted for 18 h but were allowed free access to water before and throughout the experiment. Time is taken as (0 h) zero time when the fasting period ended. The normal rats were then divided into fourteen groups of six animals in each group. Group-I animals (solvent control) were administered 2 ml/kg body weight of vehicle through oral route. Group-II received metformin (150 mg/kg). Group-III to XIV received different extracts of *solanum torvum* at doses of 100, 200 and 400 mg/kg in a similar manner. After 1, 2, 4 and 8 h interval of single-dose drug administration, the blood glucose levels were measured. The doses for various groups and treatments were depicted in Table 1.

Table 1: Doses for various groups and treatments

Groups	Treatments	Dose (mg/kg)
I	Control	2 ml/kg
II	Metformin	2.5 mg/kg
III	Pet. ether	100
IV		200
V		400
VI		100
VII	Chloroform	200
VIII		400
IX	Ethanol	100
X		200
XI		400
XII	Aqueous	100
XIII		200
XIV		400

Oral glucose tolerance test (OGTT) in rats:
The method of Dash *et al*., 2008 was followed [41]. Fasted rats were divided into fourteen groups of six rats each. Group-I animals (solvent control) were administered 2 ml/kg body weight of vehicle through oral route. Group-II received standard drug metformin (150 mg/kg). Group-III to XIV received the test extract at doses of 100, 200 and 400 mg/kg respectively through oral route. All the rats of different groups were administered orally glucose at a dose of 2 gm/kg body weight after 30 min of treatment. The Blood glucose concentrations were determined 30, 60, 150 and 180 mins after the glucose loading.

Streptozotocin-Induced hyperglycaemic rats:
The method was performed as suggested by *Dash et al.*, 2008 [41]. The acclimatized animals after fasting for 24 hours with water *ad libitum* and then streptozotocin a dose of 65 mg/kg in normal saline was injected intraperitoneal route. Standard laboratory diet *ad libitum*

was provided to the experimental animals. Under the mild anesthetic condition, the blood was withdrawn from the tip of the tail of each rat and the blood glucose level was checked before streptozotocinisation and 24 h after streptozotocinisation. To measure the blood glucose level above the stated procedure was followed. Rats having the blood glucose level above 225 mg/dl *Edwin et al.*, [42] were selected for study and grouped into fourteen groups consisting of six animals each. This condition was observed at the end of 48 h after streptozotocinisation. Orally vehicle (2 ml/kg p.o) was received by the Group-I which served as diabetic control, metformin (150 mg/kg) was received by Group-II, Pet ether, chloroform, ethanol, and aqueous extract at doses of 100, 200 and 400 mg/kg, p.o., respectively in a similar manner were received by the other groups. After 1, 2, 4 and 8 h interval of single-dose drug administration, the blood glucose levels were measured.

Statistical analysis:

All the values were expressed as mean ± SEM, for six animals in each group. The differences between groups were evaluated by one-way Analysis of Variance (ANOVA) followed by Dennett's Multiple Comparison test. $P<0.05$ was considered significant.

RESULTS AND DISCUSSION:

Using normoglycaemic rats:

Results of normoglycaemic study is shown in Table 2. It expressed that test extracts showed a significant reduction of blood glucose concentration which was in a dose-dependent manner and compares with the control. It was observed that ethanol extract reduced 14.18 % blood glucose levels at 400 mg/kg, p.o., whereas metformin (150 mg/kg, p.o) showed 24.99 % in rats after 8 h treatment.

Table 2: Effect of different extracts of the *S. torvum* on the blood glucose level in normal rats.

Group	Fasting	Blood glucose concentration (mg / dl) (normoglycaemic study)			
		Time (h) after treatment			
		1	2	4	8
I	96.83±2.84	97.66±2.1	98.16±2.05	97.83±2.12	98.16±1.99
II	96.5±2.95	88.25±2.40** (8.54%)	83.14±2.12** (13.84%)	77.06±4.62** (20.14%)	72.38±4.85** 24.99%)
III	104.06±2.24	103.16±8.05 (0.86%)	102.24±9.24 (1.74%)	101.56±10.24 (2.40%)	100.67±9.04 (3.25%)
IV	103.85±2.69	102.12±8.24 (1.40%)	101.65±8.54 (1.86%)	100.56±10.10 (2.91%)	99.64±9.36 (3.80%)
V	104.56±2.43	101.69±10.42 (2.74%)	100.57±10.38 (3.8%)	99.09±11 (5.23%)	97.03±10.16 (7.20%)
VI	98.66±9.58	97.12±9 (1.22%)	96.23±9.28 (2.13%)	95.10±11.37 (3.28%)	94.88±11.26 (3.50%)
VII	97.66±7.82	95.11±8.24 (1.58%)	95.09±8.39 (2.63%)	94.19±10.11 (3.55%)	93.81±10.53 (3.94%)
VIII	98.83±10.01	96.24±8.63 (2.62%)	94.86±7.87 (4.01%)	93.03±8.68 (5.84%)	91.34±8.46 (7.57%)
IX	99.83±2.84	98.24±2.50 (1.59%)	97.36±2.65 (2.47%)	96.23±3.87 (3.60%)	95.89±2.54 (3.94%)
X	98.66±2.21	96.54±2.34 (2.14%)	95.51±2.65 (3.19%)	94.43±4.57 (4.28%)	93.1±5.86* (5.01%)
XI	98±2.02	94.1±2.35 (3.97%)	89.5±5.48* (8.6%)	88.5±2.60** (9.69%)	84.10±2.47** (14.18%)
XII	97.83±8.23	96.52±8.74 (1.33%)	95.49±8.37 (2.39%)	94.46±8.46 (3.44%)	94.29±6.42 (3.61%)
XIII	98.83±9.58	97.16±7.24 (1.68%)	96.06±8.33 (2.80%)	95.23±7.45 (3.64%)	94.75±7.39 (4.12%)
XIV	97.5±7.84	94.77±7.83 (2.8%)	93.42±8.65 (4.18%)	91.55±7.95 (6.10%)	90.12±7.28* (7.56%)

Results expressed as Mean ± SEM from six observations (n=6). *P<0.05, **P<0.01 as compared with the control group (One way, ANOVA followed by Dunnet's t-test).

Table 3: Effect of different extracts of the *solanum torvum* oral glucose tolerance in normal rats.

Groups	Fasting	Blood glucose concentration (mg / dl) (Oral glucose tolerance study)			
		Time (min) after treatment			
		30 min.	60 min.	150 min.	180 min.
I	93.66±2.69	128.5±10.14	148.66±12.64	159.83±13.26	153.33±13.63
II	96.83±2.84	128.16±7.32	105.16±9.38*(17.94%)	91±10.8**(28.99%)	77.66±10.02** (39.4%)
III	91.17±3.79	130.16±11.79	128.33±8.1 (1.4%)	122.5±11.78 (5.88%)	120.66±11.86 (7.29%)
IV	91.33±8.83	128.16±1061	124.66±11.85 (2.73%)	120.33±11.21 (6.1%)	112±11.05* (12.6%)
V	94.16±8.24	130.5±12.65	125.16±11.56 (4.09%)	114.16±10.1* (12.52%)	110.16±10.44* (15.58%)
VI	92.03±4.21	129.33±12.12	127.36±12.38 (1.52%)	121.06±11.45 (6.83%)	118.8±12.29 (8.14%)
VII	93.83±5.49	128.28±13.16	123.85±12.02 (3.45%)	119.76±11.83 (6.64%)	112.36±111.71 (12.41%)
VIII	95.13±5	131.21±11.71	124.25±12.75 (5.3%)	113.3±11.58 (13.64%)	109.13±11.47 (16.82%)
IX	90.16±9.63	126.33±11.36	123.33±10.02 (2.37%)	120.83±11.8 (4.35%)	112.16±11.27* (11.21%)
X	94.5±3.75	130.66±12.9	127.33±13.1 (2.54%)	108.5±13.01* (16.96%)	103.83±10.41* (20.53%)
XI	98.83±10.01	131.5±12.02	106.83±8.13* (18.76%)	98.83±7.09** (24.84%)	82.16±6.63** (37.52%)
XII	92.83±2.75	128.16±10.45	124.33±10.07 (2.98%)	122.66±9.85 (4.29%)	118.16±7.4* (7.8%)
XIII	91.16±8.73	130.66±8.95	120.16±9.09 (8.03%)	116.5±9.77* (10.83%)	112.33±8.7* (14.02%)
XIV	94.34±2.78	129.16±11.25	107.5±8.47* (16.76%)	101.5±8.31* (21.41%)	98.33±7.4* (23.86%)

Results expressed as Mean ± SEM from six observations (n=6). *P<0.05, **P<0.01 as compared with the control group (One way, ANOVA followed by Dunnet's t-test

Oral glucose tolerance test (OGTT) in rats

The effect of test extracts on glucose tolerance test in normal rats is shown in Table 3. The peak of blood glucose level was increased rapidly from the fasting blood glucose value and after that subsequently decreased after 30 min of glucose administration through the oral route. All the tested extracts (100, 200 and 400 mg/kg, p.o.) exhibited significant hypoglycaemic effect but metformin and ethanol (200 and 400 mg/kg) extract significantly depressed the peak of blood glucose level at 60 min after glucose loading.

Streptozotocin-induced hyperglycaemic rats:

In an antihyperglycaemic study (Table 4), the rise in the blood glucose level was observed after 24 h of streptozotocinisation to the animals. Single administration (100, 200 and 400 mg/kg, p.o.) of the ethanol and aqueous extracts of root of *solanum torvum* in diabetic rats showed significant reduction in blood glucose level, whereas ethanol extract (400 mg/kg) was found maximum reduction in blood glucose level (56.78%) at the end of 8 h. The results of the ethanol extract are comparable to that of the reference standard metformin (59.05 %).

Table 4: Effect of different extracts of the *solanum torvum* on the blood glucose level in streptozotocin induces diabetic rats.

Groups	Fasting	Blood glucose concentration (mg / dl) (Hypoglycemic study)			
		Time (h) after treatment			
		1	2	4	8
I	239.33±2.2	248.16±1.81	250.5±2.71	255.66±1.9	258.83±2.12
II	240.16±10.2	201±10.11* (16.3%)	155±14.88** (35.45%)	112.66±9.23** (53.08%)	98.33±9.93** (59.05%)
III	240.06±7.85	239.45±8.95 (0.25%)	229.01±11.49 (4.6%)	227.35±12.1 (5.29%)	221.31±12.48 (7.81%)
IV	239.33±3.26	236.8±12.9 (1.05%)	227.16±10.5 (5.08%)	221.18±12.38 (7.58%)	215.18±13.22 (10.09%)
V	238.58±3.28	232.68±11.95 (2.47%)	222.53±13.73 (6.72%)	206.2±15.09 (13.57%)	203.41±14.57* (14.47%)
VI	241.16±2.21	240.33±11.44 (0.34%)	230.83±13.6 (4.28%)	228.5±15.36 (5.24%)	222±9.42* (7.94%)
VII	237.5±2.01	234.16±13.47 (1.40%)	225.33±13.12 (5.12%)	219.83±13.75 (7.44%)	213.33±14.24* (10.17%)
VIII	236.16±1.75	230.66±14.17 (2.32%)	220.5±14.06 (6.63%)	203.5±13.16* (13.82%)	200.5±18.64* (15.09%)
IX	238.83±14.82	230±14.27 (3.69%)	226.16±10.63 (5.3%)	215.33±9.75 (9.83%)	198.33±11.23* (16.95%)
X	240.33±10.81	201.16±9.03* (16.29%)	196±14.91* (18.44%)	195.66±17.74* (18.58%)	165.66±7.44** (31.06%)
XI	237.16±14.41	197.66±10.68* (16.65%)	190.5±13.42* (19.67%)	160.83±8.8** (32.18%)	102.5±11.26** (56.78%)
XII	240.66±10.52	237.16±10.58 (1.45%)	235.66±11.89 (2.07%)	230.33±13.16 (4.29%)	199.83±17.08* (16.96%)
XIII	237.16±2.75	233.33±7.4 (1.61%)	226.16±12.33 (4.63%)	202.83±11.92* (14.47%)	188.5±12.03* (20.51%)
XIV	236.33±14.87	230.66±15 (2.39%)	220.5±14.46* (6.69%)	197.83±14.33* (16.29%)	165.66±18.86** (29.9%)

Results expressed as Mean ± SEM from six observations (n=6). *P<0.05, **P<0.01 as compared with the control group (One way, ANOVA followed by Dunnet's t-test).

From ancient times the physicians and laymen were used various active principals obtained from the traditional medicinal plants to treat a large variety of human diseases like diabetes, cancer and coronary heart diseases. Beneficial multiple activities like manipulating carbohydrate metabolism by various mechanisms, preventing and restoring the integrity and function of beta-cells, releasing insulin activity, improving glucose uptake and utilization, and the antioxidant properties present in medicinal plants, offer an exciting opportunity to develop them into novel therapeutics. The antihyperglycaemic activity of *solanum torvum* extract may be due to the presence of several bioactive antidiabetic principles.

Streptozotocin can irreversibly damage β-cell DNA. Administration of streptozotocin caused rapid destruction of pancreatic beta-cells in rats, which led to impaired glucose-stimulated insulin release and insulin resistance, both of which are marked feature of type II diabetes. The hypoglycaemic effect of plant extract is generally dependent upon the degree of pancreatic beta-cell destruction and useful in moderate streptozotocin-induced diabetes. The lesser the degree of pancreatic beta-cell destruction, the more useful the herb is in treating diabetes in animals.

The glucose and methylnitrosourea moieties are formed from streptozotocin. Due to its alkylating properties, the fragment of DNA, biological macromolecules and beta cells are destroyed and produce insulin-dependent diabetes. The targeting of mitochondrial DNA, thereby impairing the signaling function of beta cell mitochondrial metabolism, also explains how streptozotocin can inhibit glucose-induced insulin secretion.

The biologically active ingredients that present in the extracts are responsible to reduce the blood sugar is unknown at present. There is ongoing research to isolate and characterize the bioactive compound(s) responsible for the antidiabetic activity of *solanum torvum.*

CONCLUSION:

From the present study, it is apparent that the roots of *solanum torvum* possess the hypoglycaemic activity and it justifies the use of the roots of the plant for treating diabetes as suggested in the folklore remedies.

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AUTHORS CONTRIBUTION:

Jitendra Debata: All fieldwork, laboratory experiments, preparation and correction of the manuscript. H. K. Sundeep Kumar: Supervision of experiments.

CONFLICTS OF INTEREST:

We the authors announced that we have no conflicts of interest.

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Quantification of Alectinib in spiked rabbit plasma using liquid chromatography- electro spray ionization-tandem mass spectrophotometry: An application to pharmacokinetic study

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The current technique was developed to estimate the amount of alectinib present in spiked rabbit plasma using liquid chromatographic mass spectrometry. The liquid-liquid extraction method was used, and chromatographic separation was carried out on a C18 (4.6mm id x 50mm) analytical column with a mobile phase consisting of acetonitrile and water with 0.1% formic acid at a volume ratio of 75:25. Alectinib's product m/z +483.2 (parent) 396.1 (product) and the internal standard m/z +447.5 (parent) 380.3 (product) were both obtained using positive ion mode. The calibration curve was linear from 0.5 to 600 ng/ml. The percentage extraction recovery (98.15% → 98.86%), demonstrated excellent matrix and analyte selectivity (% interference → 0), and satisfactory stability study results in all types (% nominal 94.94% → 99.63%). The intra and interday accuracy with % nominal 97 → 98.8%, precision % CV ≤ 2% in all quality control levels. The rabbit model's pharmacokinetic parameters were examined, and alectinib's area under the curve (AUC 0—∞) was 4269 ± 8.13 hr.ng/ml. The half-life of elimination (t1/2) is 8.52 ± 6.66 hours. The currently established approach was used in rabbit blood samples for pharmacokinetic investigations of commercial formulations since it was thought to be a novel, verified bioanalytical method based on experimental results.

1. Introduction

One type of cancer that begins in the lungs is lung cancer. When body cells start to proliferate uncontrollably, cancer begins to develop. NSCLC (Non-small cell lung cancer) accounts for 82–86% of lung cancer cases. Squamous cell carcinoma, adenocarcinoma, and giant cell carcinoma are the three main subtypes of NSCLC. Since their treatment and prognosis (outlook) are frequently comparable, these subtypes are classed together as NSCLC and originate from different types of lung cells[1]. The alectinib which is chemically is an organic heterotetracyclic molecule (**See Fig. 1**) with extra cyano, 4-(morpholin-4-yl)piperidin-1-yl, and ethyl substituents at positions 3, 8, and 9 respectively[2]. Alectinib is a tyrosine kinase receptor inhibitor of anaplastic lymphoma kinase (ALK) with anticancer potential. When taken, alectinib binds to and disables ALK kinase. The inhibition finally stops tumour cell proliferation in ALK-overexpressing tumour cells by causing disruption of ALK-mediated signaling[3]. In November 2017, the FDA approved alectinib (Alecensa), a TKI that targets both ALK and RET, for use as frontline therapy in patients with metastatic NSCLC that tests positive for ALK. The FDA has expanded the use of alectinib for patients with ALK-positive NSCLC who have progressed to crizotinib in addition to granting it this new indication[4,5].

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In Silico Study of Antimalarial Agents & Their Derivatives Against SARS-Cov-2 & Rheumatoid Arthritis: The New Face of Innovation

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Abstract-

The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)-caused COVID-19 pandemic has spread globally. On the other hand, Rheumatoid arthritis (RA) is a long-term autoimmune disorder that primarily affects joints. It typically results in warm, swollen, and painful joints. The goals of treatment are to reduce pain, decrease inflammation, and improve a person's overall functioning. Disease-modifying antirheumatic drugs (DMARDs), such as hydroxychloroquine and methotrexate, may be used to try to slow the progression of disease. Despite the production of different treatments, finding potent drug compounds to control RA, and COVID-19 is still a challenging task. The main objective of this work drug repurposing & design new molecule candidates more quickly by using computational techniques effective towards COVID-19 [Interleukin-2 (3qb1), Mitogen-activated protein kinase 1 (4qp3), Tyrosine-protein kinase JAK2 (4z32), Prostaglandin G/H synthase 2 (5f1a)] & RA [Spike glycoprotein (6cs2), 3C-like proteinase (6lu7), Spike glycoprotein (6vxx)]. In this simple & elegance studies revealed efficacy of 14 marketed antimalarials & 5 proposed molecules were targeted against Interleukin-2 (3qb1), Mitogen-activated protein kinase 1 (4qp3), Tyrosine-protein kinase JAK2 (4z32), Prostaglandin G/H synthase 2 (5f1a), Spike glycoprotein (6cs2), 3C-like proteinase (6lu7), Spike glycoprotein (6vxx). After accessing all docking results, it can be observed that the proposed molecule H-2 may have the better docking affinity compared to marketed best antimalarial drugs.The present work will further enable researchers to understand how in-silico designing tools may help to expedite new drug discovery process in a minimum cost.

Keywords: COVID-19, Rheumatoid arthritis, Drug Repurposing, Docking, Antimalarial drugs.

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Clinical Pharmacology

RESEARCH ARTICLE
DOI: 10.53555/jptcp.v30i17.2399

MODERN ANALYTICAL METHODS FOR STANDARDIZATION OF CLASSICAL POLY HERBAL FORMULATIONS: A REVIEW

Minaketan Sahoo[1]*, Sujit Dash[2], Amaresh Chandra Sahoo[3], Prabhat Kumar Sahoo[4], Soumya Sephali Rath[5], Priyanka Muduli[6]

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Abstract

The establishment of standards for the quality and purity of raw materials, quality control throughout the drug manufacturing method, development of a high-quality finished product, storage and distribution to preserve the quality of the finished product are all aspects of standardization in ayurvedic formulations. It is crucial for developing Ayurvedic, Siddha and Unani medicine quality control procedures. Standardization in Ayurveda, Siddha, and Unani has been thoroughly established and recorded in both classical and modern writings; nonetheless, these texts were written with an individualistic goal rather than for an industrial or commercial purpose.

Materials and Methods: Considering the most recent standardization techniques, careful consideration of the ancient texts of Ayurveda, Siddha, and Unani among others was conducted. The present WHO standards on the standardization of herbal pharmaceuticals were also studied and examined.

Discussion: This article aims to highlight historical references to standardization while incorporating the most recent scientific methodologies to create, analyse standardized Ayurveda, Siddha, and Unani medications.

Conclusion: According to the review, standardization in Ayurveda, Siddha, and Unani is a continuous process, and in order to examine fine alchemical techniques and the intermediate compounds created, one must be exceptionally watchful of new scientific approaches while also being cognizant of the traditional principles of the practice.

Keywords: Standardisation, Ayurveda, Siddha, Unani, GCMS, HPTLC

Introduction

The World Health Organization (WHO) estimates that 70–95 percent of the earth's population, mainly in emerging economies, uses traditional, complementary, alternative, or nonconventional medications for their healthcare and wellness. Also, in line with the general pattern of people going back to natural therapies, the use of herbal medications has dramatically expanded. The public's increasing usage of

Minaketan Saho

NATURAL MODIFIED STARCH USED AS A CARRIER FOR ENHANCING DISSOLUTION AND BIOAVAILABILTY OF GLIPIZIDE

Amaresh Chandra Sahoo[1*], Sujit Dash[2], Prabhat Kumar Sahoo[3], Minaketan Sahoo[4], Sushanta Kumar Behera[5], Sradhanjali Behera[6]

Abstract

Objective: The objective of this research is to use a natural modified starch obtained from *Aponogeton natans* to improve the solubility and bioavailability of glipizide, a BCS class II drug.

Methods: *Aponogeton natans* starch was isolated and modified into starch citrate form by interacting with citric acid at high temperatures. The physio-chemical characteristics of starch citrate shows that it is water insoluble, has good flow characteristics, and a high swelling index without gelling properties. Drug and starch citrate compatibility was demonstrated using FTIR and DSC spectra. The solid dispersion of glipizide with *Aponogeton natans* starch citrate was prepared by solvent evaporation method with varying proportions such as 1:1, 1:2, and 1:3.

Results: The results show that the drug content of all formulations is more than 99 %.In vitro dissolution study reveals the F6 formulation exhibits more than 90% drug dissolution within 30 minutes .Bioavailability study of F6 formulation shows greater AUC and Emax value than pure glipizide. The F6 formulation was then compressed and formulated into an IR tablet by direct compression method. The tablets are then put through a series of quality control tests. In vitro dissolution study of tablet reveals that over 90% of the medication is dissolved in 30 minutes.% DE 30 was found more than 99% in 30 minute. Lowest time of T_{50} was observed for F10 i.e. 7.36 min indicating higher dissolution potential of starch citrate based immediate release tablet.

Conclusion: The research showed that tablet prepared with starch citrate of *Aponogeton natans* shows improved dissolution and has higher bioavailability.

Keyword- *Aponogeton natans*, glipizide, super disintegrant, bioavailability, pharmacodynamic method.

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DOI: - 10.31838/ecb/2023.12.si5.093

Minaketan Sahu

Pharmacy Council of India

New Delhi

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This is to certify that **Dr. Sujit Dash**, Assistant Professor, Institute of Pharmacy & Technology, Salipur, Odisha *has participated as a delegate and successfully completed* **Pharmacy Council of India (PCI)** *sponsored* Continuing Education Programme (CEP) *entitled* "Emerging Trends in Pharmaceutical Education & Innovative Research" *from* 11th April, 2023 *to* 13th April, 2023 *organized by* **Roland Institute of Pharmaceutical Sciences,** Berhampur, Odisha.

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ODISHA - 754202
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FROM: 17-10-2022 TO 22-10-2022

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For his active and invaluable participation in the workshop for

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Under the aegis of **Internal Quality Assurance Cell (IQAC)@MSGCOPER, Nashik**

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for ~~his~~/her active participation during

22ND INDO-US INTERNATIONAL CONFERENCE

Theme: "Global Advances and Challenges in Pharmacology and Pharmaceutical Sciences"

organized by APP Odisha State Branch and APP American International Branch in collaboration with APP Biotechnology Division at College of Pharmaceutical Sciences, Baliguali, Puri, Odisha, in celebration of 'Kisan Divas 2022'.

Given on 23rd-24th day of December 2022.

PROF. AMIYAKANTA MISHRA
Convener & Principal
College of Pharmaceutical Sciences
Puri, Odisha, INDIA

DR. SUNITA DAHIYA
General Secretary APP
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Determination of Na^+ and K^+ Content In some Selected Citrus Fruits by Flame photometry.

for winning 'First/Second/Third Prize' in oral/poster competition for his/her presentation during

22ND INDO-US INTERNATIONAL CONFERENCE

Theme: "Global Advances and Challenges in Pharmacology and Pharmaceutical Sciences"

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PROF. AMIYAKANTA MISHRA
Convener & Principal
College of Pharmaceutical Sciences
Puri, Odisha, INDIA

DR. SUNITA DAHIYA
General Secretary APP
School of Pharmacy, University of Puerto Rico
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Institute of Pharmacy & Technology, Salipur

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Mamta Rani Agarwal

Coordinator

क्रम सं0/Sl No.

पंजीकरण सं0/Registration No.

भारत सरकार

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शिक्षा मंत्रालय

(उच्चतर शिक्षा विभाग)

रामकृष्णपुरम, नई दिल्ली-110066

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CERTIFICATE

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दिनांक
Dated: 22/12/2022

कार्यक्रम प्रभारी
Programme in-charge

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IMT PHARMACY COLLEGE
PURI, ODISHA

अध्यक्ष
Chairman

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held on 3rd August 2022.

Dr. Jayendra Kumar
Principal

Certificate No.: IIP22C071

DISSO INDIA 2022
INTERNATIONAL SYMPOSIUM

In association with:
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American Association of Pharmaceutical Scientists

Dates: 23-24-25 June 2022

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OF PARTICIPATION

PRESENTED TO

Dr. SATYAJIT PANDA, PhD

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President, SPDS India

Arvind K Bansal
Scientific Chair - SPDS India

Tina Morris
Executive Director, AAPS

F.No AICTE/FDP-SI/OnlineWorkshop/201/190115

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This is to certify that Dr. H K Sundeep Kumar from Institute of Pharmacy and Technology, Cuttack has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 29th May to 2nd June 2023.

Dr. Rajneesh Arora
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National Coordination Committee for Induction Program

Prof. Rajive Kumar
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"EFFECTIVE RESEARCH PROPOSAL AND MANUSCRIPT WRITING"

under the aegis of **Internal Quality Assurance Cell (IQAC)@MSGCOPER, Nashik**

during **Thursday, 23rd to Saturday, 25th March 2023.**

Mr. S. S. Boraste	Mr. V. B. Jadhav	Dr. P. L. Pingale	Dr. S. V. Amrutkar
Organizing Secretary	Co-Ordinator	IQAC Co-Ordinator & Co-Convenor	Principal & Convenor

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This is to Certify that

Prof./Dr./Mr./Ms. *Saroja Kumar Patra*

has participated as a Delegate and presented entitled "Application of QBD concept in UV-visible spectrophotometer and liquid chromatography" as Oral Presentation in 25th Annual National Convention of the Association of Pharmaceutical Teachers of India- 2022 (25th APTICON-2022) held at JSS College of Pharmacy, JSS Academy of Higher Education & Research, Mysuru, India from 2nd to 4th September 2022.

Dr. Milind J Umekar
President, APTI

Dr. Raman Dang
Secretary, APTI

Dr. T M Pramod Kumar
Organizing Chairman
25th APTICON 2022

Dr. Balamuralidhara V
Organizing Secretary
25th APTICON 2022

National Conclave

on

Ethnopharmacology - Translational Perspective Towards Modern Medicine

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. *Dr. Saroja Kumar Patro*

registered and participated in the **"National Conclave on Ethnopharmacology-Translational perspective Towards Modern Medicine"** organized by DBT- Institute of Life Sciences, Bhubaneswar in collaboration with Society for Ethnopharmacology (SFE), Bhubaneswar Local Chapter during 17th – 18th November, 2022.

Dr. Sagar K. Mishra
Joint Organizing Secretary

Dr. Sanjeeb K. Sahoo
Organizing Secretary, ILS
Coordinator, SFE, Bhubaneswar Local Chapter

Gokhale Education Society's

Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research,

Prin. T. A. Kulkarni Vidyanagar, College Road, Nashik-422005

CERTIFICATE OF APPRECIATION

This certificate is presented to

Dr./Prof./Mr./Ms./Mrs. Saroja Kumar Patro (R, No. 194)

Of Institute of Pharmacy & Technology

for participation in **Three Days National Level**

e-Faculty Development Program / e-Student Training Program On

"EFFECTIVE RESEARCH PROPOSAL AND MANUSCRIPT WRITING"

Under the aegis of **Internal Quality Assurance Cell (IQAC)@MSGCOPER, Nashik**

during **Thursday, 23rd to Saturday, 25th March 2023.**

Mr. S. S. Boraste	Mr. V. B. Jadhav	Dr. P. L. Pingale	Dr. S. V. Amrutkar
Organizing Secretary	Co-ordinator	IQAC Co-Ordinator & Co-convenor	Principal & Convenor

क्रम सं0/Sl.No.

पंजीकरण सं0/Registration No.

भारत सरकार

वैज्ञानिक तथा तकनीकी शब्दावली आयोग

शिक्षा मंत्रालय

(उच्चतर शिक्षा विभाग)

रामकृष्णपुरम, नई दिल्ली-110066

GOVERNMENT OF INDIA

COMMISSION FOR SCIENTIFIC AND TECHNICAL TERMINOLOGY

MINISTRY OF EDUCATION

(DEPARTMENT OF HIGHER EDUCATION)

RAMAKRISHNAPURAM, NEW DELHI-110066

प्रमाण-पत्र

CERTIFICATE

प्रमाणित किया जाता है श्री/सुश्री/डॉ0 .....ने वैज्ञानिक तथा तकनीकी शब्दावली आयोग द्वारा.....

में दिनांक .....से.....तक आयोजित.....

.....विषयक संगोष्ठी/कार्यशाला/प्रशिक्षण कार्यक्रम में संसाधक/विशेषज्ञ/प्रतिभागी के रूप में भाग लिया।

Certificate that Mr./Ms./Dr. Saroja Kumar Patro *has participated from* 20/12/22 *to* 22/12/22 *as an Resource Person/Expert/Participant in a Seminar / Workshop/Training Programme on* "PHARMACY EDUCATION/ GLOSSARY-ENGLISH TO ODIA"

organized by Commission for Scientific and Technical Terminology at IMT Pharmacy College, Puri, Odisha

दिनांक
Dated:

कार्यक्रम प्रभारी
Programme in-charge

PRINCIPAL
IMT PHARMACY COLLEGE
PURI, ODISHA

अध्यक्ष
Chairman

GOLDEN JUBILEE 50

JSS COLLEGE OF PHARMACY
MYSURU

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH

25th ANNUAL NATIONAL CONVENTION

APTICON 2022

"Empowering Academia for Advancing Pharmacy Education"

ASSOCIATION OF PHARMACEUTICAL TEACHERS OF INDIA (APTI)
AND
JSS COLLEGE OF PHARMACY, MYSURU
JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU

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CERTIFICATE OF APPRECIATION

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Mr. S. S. Boraste	Mr. V. B. Jadhav	Dr. P. L. Pingale	Dr. S. V. Amrutkar
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क्रम सं0/Sl.No.

पंजीकरण सं0/Registration No.

भारत सरकार

वैज्ञानिक तथा तकनीकी शब्दावली आयोग

शिक्षा मंत्रालय

(उच्चतर शिक्षा विभाग)

रामकृष्णपुरम, नई दिल्ली-110066

GOVERNMENT OF INDIA

COMMISSION FOR SCIENTIFIC AND TECHNICAL TERMINOLOGY

MINISTRY OF EDUCATION

(DEPARTMENT OF HIGHER EDUCATION)

RAMAKRISHNAPURAM, NEW DELHI-110066

प्रमाण-पत्र

CERTIFICATE

प्रमाणित किया जाता है श्री/सुश्री/डॉ0 .....ने वैज्ञानिक तथा तकनीकी शब्दावली आयोग द्वारा.....

में दिनांक .....से.....तक आयोजित.....

.....विषयक संगोष्ठी/कार्यशाला/प्रशिक्षण कार्यक्रम में संसाधक/विशेषज्ञ/प्रतिभागी के रूप में भाग लिया।

Certificate that Mr./Ms./Dr. Saroja Kumar Patro *has participated from* 20/12/22 *to* 22/12/22 *as an Resource Person/Expert/Participant in a Seminar / Workshop/Training Programme on* "PHARMACY EDUCATION/ GLOSSARY-ENGLISH TO ODIA"

organized by Commission for Scientific and Technical Terminology at IMT Pharmacy College, Puri, Odisha

दिनांक
Dated:

कार्यक्रम प्रभारी
Programme in-charge

PRINCIPAL
IMT PHARMACY COLLEGE
PURI, ODISHA

अध्यक्ष
Chairman

S.No. : 2023-08-88

National Coordination Centre - Pharmacovigilance Programme of India
Indian Pharmacopoeia Commision
(Ministry of Health & Family Welfare, Govt. of India)
Sector-23, Raj Nagar, Ghaziabad-201002

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

Dr. Satyajit Panda

has attended the "26th Skill Development Programme on Pharmacovigilance" organized by National Coordination Centre, Pharmacovigilance Programme of India (NCC-PvPI), Indian Pharmacopoeia Commission, Ghaziabad, India from 7th to 11th August, 2023 in virtual mode.

Dr. Jai Prakash
Officer-in-Charge,
Pharmacovigilance Programme of India
Indian Pharmacopoeia Commission
Ghaziabad

Dr. Rajeev Singh Raghuvanshi
Secretary-cum-Scientific Director
Indian Pharmacopoeia Commission
Ghaziabad

AWARD CERTIFICATE

This certificate is provided to

Ritika Pradhan

IPT, Salipur

for winning 'First/Second/Third Prize' in oral/poster competition for his/her presentation during

22ND INDO-US INTERNATIONAL CONFERENCE

Theme: "Global Advances and Challenges in Pharmacology and Pharmaceutical Sciences"

organized by APP Odisha State Branch and APP American International Branch in collaboration with APP Biotechnology Division at College of Pharmaceutical Sciences, Baliguali, Puri, Odisha, in celebration of 'Kisan Divas 2022'.

Given on 23rd-24th day of December 2022.

PROF. AMIYAKANTA MISHRA
Convener & Principal
College of Pharmaceutical Sciences
Puri, Odisha, INDIA

DR. SUNITA DAHIYA
General Secretary APP
School of Pharmacy, University of Puerto Rico
San Juan, Puerto Rico, USA

क्रम सं0/Sl.No.

पंजीकरण सं0/Registration No.

भारत सरकार

वैज्ञानिक तथा तकनीकी शब्दावली आयोग

शिक्षा मंत्रालय

(उच्चतर शिक्षा विभाग)

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(DEPARTMENT OF HIGHER EDUCATION)

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.....

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Certificate that Mr./Ms./Dr. SATYAJIT PANDA *has participated from* 20th *to* 22nd DEC'22 *as an Resource Person/Expert/Participant in a Seminar / Workshop/Training Programme on* Pharmacy Education/ Glossary: English - odia

.....

organized by Commission for Scientific and Technical Terminology at IMT Pharmacy College, Puri, Odisha

20/12/22

PRINCIPAL
IMT PHARMACY COLLEGE
PURI, ODISHA

दिनांक
Dated:

कार्यक्रम प्रभारी
Programme in-charge

अध्यक्ष
Chairman

क्रम सं0/Sl.No.

पंजीकरण सं0/Registration No.

भारत सरकार
वैज्ञानिक तथा तकनीकी शब्दावली आयोग
शिक्षा मंत्रालय
(उच्चतर शिक्षा विभाग)
रामकृष्णपुरम, नई दिल्ली-110066

GOVERNMENT OF INDIA
COMMISSION FOR SCIENTIFIC AND TECHNICAL TERMINOLOGY
MINISTRY OF EDUCATION
(DEPARTMENT OF HIGHER EDUCATION)
RAMAKRISHNAPURAM, NEW DELHI-110066

प्रमाण-पत्र
CERTIFICATE

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.....
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.....
organized by Commission for Scientific and Technical Terminology at IMT Pharmacy College, Puri, Odisha.....

20/12/22

दिनांक
Dated :

कार्यक्रम प्रभारी
Programme in-charge

PRINCIPAL
IMT PHARMACY COLLEGE

अध्यक्ष
Chairman

NIPAM

This is to certify that, **MR. SAROJA KUMAR PATRO** of **INSTITUTE OF PHARMACY & TECHNOLOGY, SALIPUR, CUTTACK.** has successfully participated in IP Awareness/Training program under

on June 28,2022

Intellectual Property Office, India

Date:July 14,2022

TURNIP

#TIF2023

CERTIFICATE OF PARTICIPATION

Awarded To

H K Sundeep Kumar

For attending Turnip Innovation Festival 2023. Event organised by Turnip Innovations as a one-day online workshop in Intellectual Property Commercialisation (Sat, 21st Jan, 2023)

Turnip Innovations Pvt. Ltd
Corporate Identity Number: U74999WB2018PTC227193
Address: Mani Casadona, 6WS9, TCS GP Main Rd,
New Town AA 2F, Kolkata 700156, India
Certificate Number: 912066
Issue Date : 21 Jan 2023

RAHUL KAPOOR
Founder, Turnip Innovations

ARKA JAIN University
Jharkhand

SCHOOL OF PHARMACY

and

SCHOOL OF ALLIED HEALTH SCIENCES, PHARMACY DEPARTMENT, SAN PEDRO COLLEGE, PHILIPPINES & MoU PARTNERS

Collaboratively Organized

International Conference - 2023

On

"GLOBAL HEALTH CHALLENGES & TRANSLATING RESEARCH INTO PRACTICE (GHCTRP)"

2nd - 6th May 2023

Presented

Certificate of Participation

To

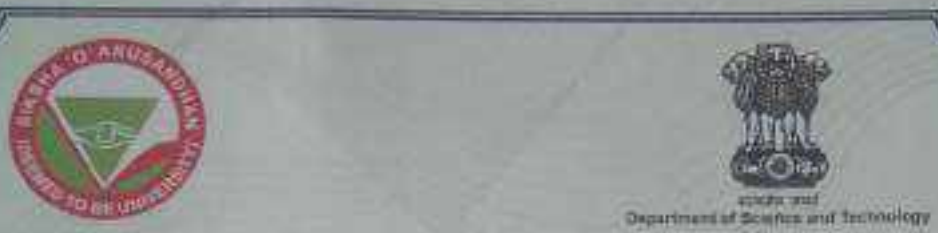
Dr. PRABHAT KUMAR SAHOO

INSTITUTE OF PHARMACY AND TECHNOLOGY SALIPUR ODISHA

For your valuable contribution

Prof. S.S. Razi
Vice Chancellor
ARKA JAIN University, Jharkhand, India

IN ASSOCIATION WITH IQA CELL, INDUSTRY INSTITUTE INTERACTION CELL & RESEARCH DEVELOPMENT CELL OF AJU



Certificate of Participation

This is to certify that

PRABHAT KUMAR SAHOO

has attended one day workshop as

◯ Resource person/ ◯ Speaker/ ✓ Delegate

on the topic "Electrospinning Technique: Principle and Applications in Drug Delivery" sponsored by Department of Science and Technology, Govt. of India.

Date: 04-March-2023

Prof. Kulamani Parida
Chief Guest

Prof. Sudam Ch. Si
Coordinator

School of Pharmaceutical Sciences
(Faculty of Pharmaceutical Sciences)
SIKSHA 'O' ANUSANDHAN (DEEMED TO BE UNIVERSITY)
Bhubaneswar, Odisha, India

2023-11-25 10:33

SOCIETY FOR ETHNOPHARMACOLOGY
(SFE-INDIA)

www.ethnopharmacology.in

This is to certify that

Saroja Kumar Patro

BHUBANESWAR, ODISHA

Has been accepted as a member of the
Society for Ethnopharmacology, Kolkata, India (SFE-INDIA).

In witness whereof this certificate has been signed and

presented on September 26, 2022.

Membership No: SFE/22/I-2348 **Valid till: September 30, 2027**

MR. BIRENDRA K SARKAR
President

MR. INDRANEEL DAS
Vice-President

SOCIETY FOR ETHNOPHARMACOLOGY
(A Registered Society under West Bengal Society Registration Act 1961)
Affiliated to International Society for Ethnopharmacology
23/3 Shaktigarh, Jadavpur, Kolkata 700032, India
sfeindian@gmail.com

TWO DAYS INTERNATIONAL WORKSHOP

ON

RECENT ADVANCES & DEVELOPMENTS IN TRANSDISCIPLINARY RESEARCH

July 26-27, 2023

Jointly organized by

SRI VENKATESWARA UNIVERSITY, TIRUPATI

&

SEVEN HILLS COLLEGE OF PHARMACY (Autonomous), TIRUPATI

Certificate of Participation

This is to certify that

Prof./ Dr./ Mr. / Mrs. / Ms. **SUJIT KUMAR SAHU**

has participated as Delegate in a Two days International Workshop on **"RECENT ADVANCES & DEVELOPMENTS IN TRANSDISCIPLINARY RESEARCH"** *Jointly organized by Sri Venkateswara University, Tirupati & Seven Hills College of Pharmacy (Autonomous), Tirupati on 26th & 27th July 2023.*

Convenor
Prof.K.Saravanakumar
Professor
Seven Hills College of Pharmacy
(Autonomous)
Tirupati

Patron
Dr.M.Niranjan Babu
Principal
Seven Hills College of Pharmacy
(Autonomous)
Tirupati

NITTTRK/ICT/2022-23/3022

NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH (NITTTR) KOLKATA

(Established by the Ministry of Education Government of India)

Certificate of Participation

Sujit Kumar Sahu

has completed Two Weeks

Faculty Development Programme on

Data Science with Matlab

organised by this Institute

from 7th November to 18th November, 2022 successfully.

Dr. Nirmal Kumar Mandal
Programme Coordinator(s)

Dr. Urmila Kar
Faculty-in-Charge, Academic Affairs

Prof. Debi Prasad Mishra
Director

Pharmacy Council of India

New Delhi

Certificate of Participation

This is to certify that **Dr. H K Sundeep Kumar**, Assistant Professor, Institute of Pharmacy & Technology, Salipur, Odisha *has participated as a delegate and successfully completed* **Pharmacy Council of India (PCI)** *sponsored* Continuing Education Programme (CEP) *entitled* "Emerging Trends in Pharmaceutical Education & Innovative Research" *from* 11th April, 2023 *to* 13th April, 2023 *organized by* **Roland Institute of Pharmaceutical Sciences,** Berhampur, Odisha.

Dr. Jammula Sruti
Director
Patron

Dr. B.V.V. Ravi Kumar
Principal
Convener

Dr. Biswa Mohan Sahoo
Professor
Coordinator

क्रम सं0/Sl.No.

पंजीकरण सं0/Registration No.

भारत सरकार

वैज्ञानिक तथा तकनीकी शब्दावली आयोग

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GOVERNMENT OF INDIA

COMMISSION FOR SCIENTIFIC AND TECHNICAL TERMINOLOGY

MINISTRY OF EDUCATION

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RAMAKRISHNAPURAM, NEW DELHI-110066

प्रमाण-पत्र

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Certificate that Mr./Ms./Dr. H.K. SUNDEEP KUMAR *has participated from* 20th *to* 22nd DEC'22 *as an Resource Person/Expert/Participant in a Seminar / Workshop/Training Programme on* PHARMACY EDUCATION/GLOSSARY : ENGLISH - ODIA

.....

organized by Commission for Scientific and Technical Terminology at IMT Pharmacy College, Puri, Odisha

.....

दिनांक
Dated :

कार्यक्रम प्रभारी
Programme in-charge

20/12/22

PRINCIPAL
IMT PHARMACY COLLEGE
PURI ODISHA

अध्यक्ष
Chairman

Office of the Principal
Institute of Pharmacy & Technology, Salipur, Cuttack-754202, Odisha

Mentor-Mentee Notice

No. IPT/ 74 /2022, Date:06.05.2022

It is hereby advised to all the Mentors of this institution to maintain the Mentor-Mentee system as per the following protocol. For reference of the faculty members the protocol has been displayed in our college website under Mentor-Mentee system.

MENTOR-MENTEE SYSTEM

Mentoring is an effective and popular way of providing guidance and support to the students and thereby shaping their future. Effective mentoring also helps to accomplish program vision & mission of an institute. It develops a sense of discipline, responsibility and accountability within the student community. The prime objective of the mentor-mentee process at IPT, Salipur is to ensure students' overall development with regard to academics, professional integrity and helps in developing employable skills among the technical students of this institution.

Details of Mentor-Mentee Process

- Eligible faculty members are assigned a group of 20 to 25 mentees whom they serve as mentors throughout the period of their course.
- The first-year students are assigned mentors through the Mentor-Mentee system.
- The mentors are provided with a standard booklet containing all personal and academic details of their respective mentees, which they need to update throughout academic curriculum of the assigned students.
- The mentors remain in regular touch with the guardian of the mentees and update them regarding the progress and any deficiencies found within them.
- Proper confidentiality shall be maintained by the mentors with regard to the personal grievances of their respective mentees and motivate and guide them to navigate themselves from odd situations.
- The mentors shall be consulted/informed in case of disciplinary issues on code of conduct with their respective mentees.

Role of a Mentor

- To take the lead in supporting a mentee through an ongoing, one-to-one relationship.
- To build a relationship of trust by caring and planning for welfare of the mentee.
- To serve as a positive role model.
- To strive for mutual respect.
- Always be a patient listener to the mentees and be considerate and flexible towards the issues of mentees.
- Should always encourage and support the mentees for constructive activities.
- Try to develop a sense of mutual respect for each other among the mentees.

Responsibilities of a Mentor

- Meet the mentee student twice in a month.
- Track the academic performance of the mentee and counsel, guide and motivate in all academic and professional matters.
- Advise the mentee regarding choice of electives, add on courses, external certifications, project, summer training/internships and other co-curricular matters.
- Advise for career options and its planning and development.
- Maintain a confidential progressive record of the mentee.
- Intimate HOD and suggest if any coordinated action is called for.
- Contact parents/guardians, if situation demands, e.g. irregularities, negative behavioral changes and interpersonal relations, detrimental activities etc.
- Maintain contact with the students even after their graduation.

Responsibilities of a Mentee

- Respect the mentor.
- Regularly attend the meetings with the mentor and seek advice.
- Provide the details of his/her performance, curricular and extracurricular activities to the mentor.

HOD 6/5/22
Coordinator

6/5/22
Principal

PRINCIPAL
Institute of Pharmacy & Technology
Salipur, Dist-Cuttack-754202, Odisha

Copy to: Student notice board/Staff circular/Mentor mentee file/Notice file/Guard file.

Office of the Principal
Institute of Pharmacy & Technology, Salipur, Cuttack-754202, Odisha
Mentor-Mentee Notice

No. IPT/ 3/4 /2023, Date: 13.02.2023

The following D. Pharm, B. Pharm and M. Pharm students of academic year 2022-23 are under your Mentorship, carryout the Mentor Mentee meeting once in a month or as often possible and discuss vividly about the curricular and extracurricular activities of each mentee, so that the mentees will be competent from all aspects.

Sl.No.	Mentors Name	Course & year	Mentees Regn. No./Roll No.	Signature
01	Dr. S. Panja	D. Pharm 1st year	001 to 020	
02	Dr. S.K. Sahu	D. Pharm 1st year	021 to 040	
03	Mr. B.K. Nayak	D. Pharm 1st year	041 to 060	
04	Dr. S.K. Behera	D. Pharm 2nd year	001 to 020	
05	Dr. B.N. Mishra	D. Pharm 2nd year	021 to 040	
06	Mr. C. Panda	D. Pharm 2nd year	041 to 060	C. Panda
07	Dr. M. Banerjee	B.Pharm 1st year	22BPH1001 to 22BPH1020, 22BPH1101	
08	Mr. A.C. Sahoo	B.Pharm 1st year	22BPH1021 to 22BPH1040, 22BPH1102	
09	Dr. C.S. Barik	B.Pharm 1st year	22BPH1041 to 22BPH1060, 22BPH1103	
10	Dr. P.K. Sahoo	B.Pharm 1st year	22BPH1061 to 22BPH1080, 22BPH1104	
11	Dr. S. Dash	B.Pharm 1st year	22BPH1081 to 22BPH1100, 22BPH1105	
12	Dr. B.R. Mohanty	B.Pharm 2nd year	2103257001 to 2103257021, 22BLE1001 to 22BLE1003	
13	Dr. B.S. Nayak	B.Pharm 2nd year	2103257022 to 2103257042 22BLE1004 to 22BLE1006	
14	Dr. B.S. Mishra	B.Pharm 2nd year	2103257043 to 2103257063 22BLE1007 to 22BLE1009	
15	Dr. S. Panda	B.Pharm 2nd year	1803257063, 2103257064 to 2103257073, 2103257075 to 2103257084 22BLE1010 to 22BLE1012	
16	Dr. S.S. Kar	B.Pharm 2nd year	2103257085 to 2103257105 22BLE1013 to 22BLE1014	
17	Dr. M.K. Sahoo	B.Pharm 3rd year	1803257018, 2003257001 to 2003257021, 2123257001 & 2123257002	
18	Dr. R.K. Giri	B.Pharm 3rd year	2003257022 to 2003257042, 2123257003 & 2123257004	13/02/23
19	Dr. A.K. Senapati	B.Pharm 3rd year	2003257043 to 2003257063, 2123257005 & 2123257006	
20	Dr. H.K. Sandeep Kumar	B.Pharm 3rd year	2003257064 to 2003257084, 2123257007 & 2123257008	
21	Mrs. B. Behera	B.Pharm 3rd year	2003257085 to 2003257105, 2123257009 to 2123257011	
22	Dr. S.K. Kanungo	B.Pharm Final year	1903257001 to 1903257021, 2023257001 to 2023257003	
23	Dr. P.K.S. Mahapatra	B.Pharm Final year	1903257022-1903257042, 2023257004 & 2023257005	
24	Dr. S.K. Patro	B.Pharm Final year	1903257043-1903257063,	

Sl.No.	Mentors Name	Course & year	Mentees Regn. No./Roll No.	Signature
			2023257006 & 202325707	
31	Dr. A.K. Prusty	B.Pharm Final year	1903257064-1903257084 2023257008 & 202325709	
32	Mr. D. Hati	B.Pharm Final year	1903257085-1903257104 2023257010 to 2023257013	
1 32	Dr. S.K. Patro	M.Pharm 1st year (Pharm. Analysis)	22MPH001 to 22MPH012	
2 33	Dr. S.K. Kanungo	M.Pharm 1st year (Pharma. Chemistry)	22MPH013 to 22MPH024	13/3/23
3 34	Dr. B.R. Mohanty	M.Pharm 1st year (Pharmaceutics)	22MPH025 to 22MPH039	
4 35	Dr. S.K. Patro	M.Pharm 2nd year (Pharm. Analysis)	2108257001 to 2108257015	
5 36	Dr. S.K. Kanungo	M.Pharm 2nd year (Pharma. Chemistry)	2108257016 to 2108257029	13/3/23
6 37	Dr. B.R. Mohanty	M.Pharm 2nd year (Pharmaceutics)	2108257030 to 2108257044	

13/3/2023
Coordinator

13/3/23
Principal
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Salipur, Dist-Cuttack-754202, Odisha

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Mentor-Mentee Notice

No. IPT/ 478 /2023, **Date:**25.04.2023

In continuation of our earlier notice No. IPT/34/2023, dated 13.01.2023, the following D. Pharm, B. Pharm and M. Pharm students of the academic year 2022-23 are under your Mentorship. Kindly do Mentor Mentee meeting once in a month or as often possible and counsel them about the curricular and extracurricular activities of each mentee, so that the mentees will be competent from all aspects.

Sl.No.	Mentors Name	Course & year	Mentees Regn. No./Roll No.	Signature
01	Dr. S.K. Behera	D. Pharm 1st year	210P10001 to 210P10020	
02	Dr. B.N. Mishra	D. Pharm 1st year	210P10021 to 210P10040	
03	Mr. C. Panda	D. Pharm 1st year	210P10041 to 210P10060	
04	Dr. S. Patra	D. Pharm 2nd year	21DP10001 to 21DP10020	
05	Dr. S.K. Sahu	D. Pharm 2nd year	21DP10021 to 21DP10040	
06	Mr. B.K. Nayak	D. Pharm 2nd year	21DP10041 to 21DP10060	
07	Dr. M. Banerjee	B.Pharm 1st year	220325[illegible] to 220325[illegible]	
08	Mr. A.C. Sahoo	B.Pharm 1st year	220325[illegible] to 220325[illegible]	
09	Dr. C.S. Barik	B.Pharm 1st year	220325[illegible] to 220325[illegible]	
10	Dr. P.K. Sahoo	B.Pharm 1st year	220325[illegible] to 220325[illegible]	
11	Dr. S. Dash	B.Pharm 1st year	220325[illegible] to 220325[illegible]	
12	Dr. B.R. Mohanty	B.Pharm 2nd year	210325[illegible] to 210325[illegible] 222325[illegible] to 222325[illegible]	
13	Dr. B.S. Nayak	B.Pharm 2nd year	210325[illegible] to 210325[illegible] 222325[illegible] to 222325[illegible]	
14	Dr. B.S. Mishra	B.Pharm 2nd year	210325[illegible] to 210325[illegible] 222325[illegible] to 222325[illegible]	
15	Dr. S. Panda	B.Pharm 2nd year	210325[illegible]62, 210325[illegible] to 210325[illegible], 210325[illegible] to 210325[illegible] 222325[illegible] to 222325[illegible]	
16	Dr. S.S. Kar	B.Pharm 2nd year	210325[illegible] to 210325[illegible] 222325[illegible] to 222325[illegible]	
17	Dr. M.K. Sahoo	B.Pharm 3rd year	[illegible]018, 200325[illegible] to 200325[illegible] 212325[illegible] & 212325[illegible]	
18	Dr. R.K. Giri	B.Pharm 3rd year	200325[illegible] to 200325[illegible], 212325[illegible] & 212325[illegible]	
19	Dr. A.K. Senapati	B.Pharm 3rd year	200325[illegible] to 200325[illegible], 212325[illegible] & 212325[illegible]	
25	Dr. H.K. Sundeep Kumar	B.Pharm 3rd year	200325[illegible] to 200325[illegible] 212325[illegible] & 212325[illegible]	
26	Mrs. B. Behera	B.Pharm 3rd year	200325[illegible] to 200325[illegible], 212325[illegible] to 212325[illegible] & 200325[illegible]	
27	Dr. S.K. Kanungo	B.Pharm Final year	190325[illegible] to 190325[illegible], 202325[illegible] to 202325[illegible]	

26/4/23

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26/04

25/04/2023

Sl.No.	Mentors Name	Course & year	Mentees Regn. No./Roll No.	Signature
28	Dr. P.K.S. Mahapatra	B.Pharm Final year	190325[illegible]042, 202325[illegible] & 202325705	
29	Dr. S.K. Patro	B.Pharm Final year	190325[illegible]063, 202325[illegible] & 202325707	
30	Dr. A.K. Prusty	B.Pharm Final year	190325[illegible]084, 202325[illegible] & 202325709	
31	Mr. D. Hati	B.Pharm Final year	190325[illegible]094, 202325[illegible] & 202325711	
32	Dr. S.K. Patro	M.Pharm 1st year (Pharm. Analysis)	2208257001 to 2208257012	
33	Dr. S.K. Kanungo	M.Pharm 1st year (Pharma. Chemistry)	2208257013 to 2208257024	
34	Dr. B.R. Mohanty	M.Pharm 1st year (Pharmaceutics)	2208257025 to 2208257039	
35	Dr. S.K. Patro	M.Pharm 2nd year (Pharm. Analysis)	2108257001 to 2108257015	
36	Dr. S.K. Kanungo	M.Pharm 2nd year (Pharma. Chemistry)	2108257016 to 2108257029	
37	Dr. B.R. Mohanty	M.Pharm 2nd year (Pharmaceutics)	2108257030 to 2108257043	

Coordinator

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INSTITUTE OF PHARMACY & TECHNOLOGY

AT / P.O. SALIPUR, Dist. CUTTACK, ODISHA, PIN-754202.

MENTOR'S DIARY

MENTOR'S PROFILE

Dr. Sujit Dash

Assistant Professor

Department : **Pharmacognocy**

Period : **2022 - 26**

Vision :

To generate competent Pharma human resources.

Mission :

To impart quality education in Pharmacy with continuous enrichment of knowledge and skill, to inculcate the competitive attitude, leadership quality with ethical approach, to meet the dynamic needs of the global village in all relevant fields.

LIST OF MENTEES

Sl.No	Regd. No	Name	Mobile No.
1	2203257085	Sk. Sahid	9692577237
2	2203257086	Sk Sakin Mohammad	9337095686
3	2203257087	Sk. Shakir	9078625383
4	2203257088	Smita Suchanita Kar	8260976535
5	2203257089	Smruti Nayak	9348282135
6	2203257090	Smruti Ranjan Rout	9937338238
7	2203257091	Soumya Ranjan Jena	8984501959
8	2203257092	Soumya Ranjan Rout	7847945148
9	2203257093	Soumyadipta Nayak	6371671562
10	2203257094	Soumya Ranjan Rout	7847945148
11	2203257095	Soumyashree Behera	8144186011
12	2203257096	Sripada Rout	7735604162
13	2203257097	Subhashree Maharana	8260773640
14	2203257098	Subhasis Beriwal	9438277001
15	2203257099	Subhendu Swain	8093903821
16	2203257100	Sumit Barik	7855990535
17	2203257101	Suagata Manik	969205 3957
18	2203257102	Swagatam Mohapatra	8144255039
19	2203257103	Swayamdeep Singh	9938670874
20	2203257104	Tejaswini Mohanty	8093153700
21	2203257105	Zara Noor	9938338146
22			
23			
24			
25			

MENTEE RECORD

I. PERSONAL PROFILE

1. Name: Smita Sucharita kar
2. Admission Number: ____________ Reg No: 2203257038
3. Address: At - Nachhipur po - Telengapentha cuttack
   Pin - 754001
4. Contact Details-
   Residential Phone No: 8280536804 Personal Cell No: 8260976585

   E-mail: ksmitasucharita@gmail.com
5. DOB: 25 / 06 / 2004 Age: 19 Blood Group: A +ve

II. FAMILY PROFILE

1. Father's Details:

   Name: Sujit kar Phone No: 8658948891

   Occupation: Self employed Education: B.Sc hons
2. Mother's Details:
   Name: Sagarika panda Phone No: 8280536804

   Occupation: House Wife Education: M.A
3. Category: General Family Income below 2.4 lakh
4. No. of Siblings 0
5. Local Residence: Parents (Tick the relevant box)

Parents	Hostel	Relatives
☐	☐	☑ ✓

For Hostelites:

1. Local Guardian's Name :(LG)_____
2. Address:_____
3. Relationship with LG:_____

III. ACADEMIC INPUTS

1. Name of the previous Institution: S.A.T Higher Studies & Research
2. Previous Course Completed: 12th
3. Percentage obtained in the last qualifying exam: 66%
4. Medium of Instruction:_____
5. Prizes awarded/earned In previous institutions

	Institution	Activity	Prize Details
Academic			
Co-Curricular			
Extra Curricular			
Cultural			
Sports			

IV. SPECIAL INTERESTS AND HOBBIES

Watching Animation in Free time, listening music

CO-CURRICULAR: are activities that supplement syllabi learning and enhance performance outcomes. They supplement and strengthen classroom learning. Activities like Certificate Courses in different disciplines; College sponsored Sporting Activities like Yoga Courses; Club Activities from different discipline related clubs like Science Club etc. are all Co-curricular Activities.

EXTRA –CURRICULAR: are activities that are indispensable, but not directly related to curricular of college. However, they enhance the personality, well being and confidence of learners while ingraining codes of discipline and the like.NSS, NCC, RED CROSS, SCOUTS and GUIDES come under this category.

SEMESTER- PERIOD:

SL. No	Description of Activity Co-Curricular	Credits	Description of Activity Extra-Curricular	Credits

ACADEMIC PERFORMANCE CHART

NAME: Smita Sucharita kar

REGD No. 2203257088

SEMESTER: I

SUBJECT	ATTENDANCE*	ACAD. INTERACTION*	TEST(AVG)*	END SEM*	TOTAL*
HAP	3	3	8.5	E	
nalysis	3	3	11.8	A	
tatics	3	3	12.0	A	
on skill	3	3	8.7	E	
m.Bio	3	3	9.2	E	
norganic	3	3	12.8	O	

*Marks of all criteria are to be calculated on 10 points basis.

SEMESTER: II

SUBJECT	ATTENDANCE*	ACAD. INTERACTION*	TEST(AVG)*	END SEM*	TOTAL*

*Marks of all criteria are to be calculated on 10 points basis.

MENTEE RECORD

I PERSONAL PROFILE

1. Name: Swayamdeep Singh

2. Admission Number: ____________ Reg No: 2203257103

3. Address: At-Koliatha, Po-Barsalerpur, Block-Mahanga, Dist-Cuttack 754204, via-Kuanpal.

4. Contact Details-
   Residential Phone No: 8144456369 Personal Cell No: 9938670874
   E-mail: Singhswayamdeep@gmail.come

5. DOB: 28 / 05 / 2005 Age: 18+yrs Blood Group A+

II.FAMILY PROFILE

1. Father's Details:
   Name: Umesh chandra Singh Phone No: 9938734128
   Occupation: Teacher Education: ____________

2. Mother's Details:
   Name: Sanjukta Singh Phone No: 8144456369
   Occupation: ~~[illegible]~~ Housewife Education: ____________

3. Category: General Family Income 55,000/-

4. No. of Siblings 1

5. Local Residence:
   (Tick the relevant box)

Parents	Hostel	Relatives
✓		

For Hostelites:

1. Local Guardian's Name :(LG)_____

2. Address:_____

_____

_____

3. Relationship with LG:_____

II. ACADEMIC INPUTS

1. Name of the previous Institution: Rajesh institute of engineering and technology

2. Previous Course Completed: +2 . Science

3. Percentage obtained in the last qualifying exam: 62%

4. Medium of Instruction:_____

5. Prizes awarded/earned In previous institutions

	Institution	Activity	Prize Details
Academic			
Co-Curricular			
Extra Curricular			
Cultural			
Sports			

SPECIAL INTERESTS AND HOBBIES

cricket

CO-CURRICULAR are activities that supplement syllabi learning and enhance performance outcomes. They supplement and strengthen classroom learning. Activities like Certificate Courses in different disciplines; College sponsored Sporting activities like Yoga Courses; Club Activities from different discipline related clubs like Science Club etc. are all Co-curricular Activities.

EXTRA –CURRICULAR: are activities that are indispensable, but not directly related to curricular of college. However they enhance the personality, well being and confidence of learners while ingraining codes of discipline and the like.NSS, NCC, RED CROSS, SCOUTS and GUIDES come under this category.

SEMESTER- PERIOD:

SL. No	Description of Activity Co-Curricular	Credits	Description of Activity Extra-Curricular	Credits

ACADEMIC PERFORMANCE CHART

NAME:

REGD No.

SEMESTER: I

SUBJECT	ATTENDANCE*	ACAD. INTERACTION*	TEST(AVG)*	END SEM*	TOTAL*
HAE-1	3	3	8.5	A	
Analysis	3	3	7.3	A	
[illegible]	3	3	7.8	B	
Management	3	3	5.8	C	
[illegible]	3	3	8.2	A	
Non-Bio	3	3	4.2	A	

*Marks of all criteria are to be calculated on 10 points basis.

SEMESTER: II

SUBJECT	ATTENDANCE*	ACAD. INTERACTION*	TEST(AVG)*	END SEM*	TOTAL*

*Marks of all criteria are to be calculated on 10 points basis.

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Any other relevant information

Sl No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1	DEVELOPMENT AND VALIDATION FOR EVOGLIPTIN IN BULK AND TABLET DOSAGE FORM USING ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY-PDA METHOD	Mitali Yahoo 1, Mrityunjay Banerjee 2, Suman Acharyya 3, Anjan Kumar Adhikary 4, Pratap Kumar Patra 5, Sujit Kumar Sahu 6 andH. K. Sundeep Kumar 7*	Pharmaceutical chemistry	COMMUNITY PRACTITIONER	2023	ISSN 1462 2815	DOI: 10.5281/zenodo.8404929
2	SYNTHESIS & IN-VITRO PROTEIN DENATURATION SCREENING OF 2-[(1, 5-DISUBSTITUTEDPHENYL-4,5-DIHYDRO-1R-PYRAZOL-3-YL]OXY]BENZOIC ACID DERIVATIVES	Mrityunjay Banerjee 1, Saroja Kumar Patro 1, Susanta Kumar Behera 1, Suman Acharyya 2, Mitali Sahoo 2, Pratap Kumar Patra 3 andSujit Kumar Sahu1*	Pharmaceutical chemistry	COMMUNITY PRACTITIONER	2023	ISSN 1462 2815	
3	Computational Designing, Synthesis & in-vitro antibacterial screening of Ciprofloxacin derivatives for development of new broad spectrum Antibacterial Agents	Sujit Kumar Sahu1Mrityunjay Banerjee1*, Minaketan Sahoo2&Sahin Meheboob3	Pharmaceutical chemistry	High Technology Letters	2022	ISSN NO : 1006-6748	
4	TENOFOVIR DISOPROXIL FUMARATE MUCOADHESIVE MICROSPHERE FORMULATION AND EVALUATION	Prabhat Kumar Sahoo1*, Amaresh Chandra Sahoo2, Sujit Dash3, Sujit Kumar Sahu4, Susanta Kumar Behera5	Pharmaceutical chemistry	Eur. Chem. Bull.	2023		DOI: 10.48047/ecb/2023.12.si10.0239
5	Studies on hypoglycaemic activity of the different extracts of solanum torvum root	Jitendra Debata1 , H. K. Sundeep Kumar2 , SA Sreenivas1	Pharmaceutical Chemistry	Research J. Pharm. and Tech	Oct-22	0974-3618	10.52711/0974-360X.2022.00686
6	In-Vitro Anti-diabetic & Anti-cancer Investigation of Newly Synthesized Substituted Nitrogen Containing Azoles Analogues	Tejaswini Kumari Dash1*, H.K. Sundeep Kumar2, Mrityunjay Banerjee2	Pharmaceutical Chemistry	European Chemical Bulletin	Jul-22	2063-5346	9edc3c60a99be5e537d322503 4
7	Quantification of Alectinib in spiked rabbit plasma using liquid chromatography-electro spray ionization-tandem mass spectrophotometry: An application to pharmacokinetic study	H. K. Sundeep Kumara*, Suman Acharyyab, Prasenjit Mondal, Pratap Kumar Patrad and Satyabrata Sahue	Pharmaceutical Chemistry	Current Chemistry Letters	Jan-23	1927-730x	10.5267/j.ccl.2023.1.003

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INSTITUTE OF PHARMACY & TECHNOLOGY, SALIPUR

AT / P.O. SALIPUR, DIST. CUTTACK, ODISHA, PIN-754202.

(Regd. No.5226/371/1987-88 of Societies Act. XXI of 1860)

NAAC Accredited Institute

B.Pharm Course Accredited By NBA

Approved by: All India Council for Technical Education, Pharmacy Council of India, & Govt. of Odisha.

Affiliated to: Biju Patnaik University of Technology & Odisha State Board of Pharmacy, Odisha.

Estd.:1982

Vision: *To generate competent Pharma human resources.*

Mission: *To impart quality education in Pharmacy with continuous enrichment of knowledge and skill, to inculcate the competitive attitude, leadership quality with ethical approach, to meet the dynamic needs of the global village in all relevant fields.*

Sl No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
8	In Silico Study of Antimalarial Agents & Their Derivatives Against SARS-Cov-2 & Rheumatoid Arthritis: The New Face of Innovation	H.K.S Sundeep Kumar1 , Priyadarshini Mishra1 , Mitali Sahoo 2 , Suman Acharyya3 , Pratap Kumar Patra4 , Sujit Kumar Sahu1 , & Mrityunjay Banerjee1*	Pharmaceutical Chemistry	European Chemical Bulletin	Dec-22	2063-5346	10.31838/ecb/2023.12.4.291
9	Medicinal Plant Cultivation: Current Scenario, Challenges, and Opportunities from Indian Farmer's Perspective.	Panda DS, Giri RK.	Pharmacology	Journal of Health Science and Medical Research.	2023		2023:20231009 .
10	Public Perceptions Regarding the Preparedness of Government to Combat the Third Wave of COVID-19 (SARS-CoV-2) Infection Across Various States of India.	Panda DS, Giri RK, Khandai M, Naguib IA, Abourehab MA.	Pharmacology	Disaster medicine and public health preparedness. Cambridge University Press.	2023		2023;17:e362.
11	Method development and validation of valacyclovir in bulk & tablet dosage form by Spectrophotometric & non aqueous Potentiometric method.	Sahu SK, Patro SK, Giri RK.	Pharmacology	World Journal of Pharmaceutical Research.	2022, Volume 11, Issue 4, 1014-1025.	ISSN 2277–7105	
12	Hypolipidemic Effect of The Fruit Juice of Hippophae rhamnoides L.(Seabuckthorn) in Hypercholesteremic New Zealand Rabbits Model.	Praharaj S, Kalaichelvan VK, Murugan V, Ahmad I, Giri RK.	Pharmacology	Research Journal of Pharmacy and Technology.	2022;15(6) :2565-70.	0974-3618 (Print), 0974-360X (Online)	
13	Ethno-Medical informations from Coastal Odisha, a Review	Khuntia Tapas Kumar, Naeda Upendra Nath and Senapati Aswini Kumar	Pharmacology	International Journal of Life science and Pharma Research	2022	ISSN 2250-0480	10.22376/ijpbs /lpr.2022.12.1. P28-41
14	ANTIDEPRESSANT ACTIVITY OF CRINUM ASIATICUM	Parthasarathi Mishra , Aswini Kumar Senapati , Sudhansu Ranjan Swain , Sujit Dash, Suchismita Kar	Pharmacology	European Chemical Bulletin	2023	ISSN 2063-5346	10.31838/ecb/2023.12.si5.044
15	ANTIDEPRESSANT ACTIVITY AND LCMS ANALYSIS OF CRINUM DEFIXUM	Parthasarathi Mishra , Aswini Kumar Senapati , Sudhansu Ranjan Swain , Sujit Dash, Suchismita Kar	Pharmacology	European Chemical Bulletin	2023	ISSN 2063-5346	10.48047/ecb/2023.12.si5a.0358
16	ROLE OF HUMAN CHORIONIC GONADOTROPIN IN FROZEN-THAWED EMBRYO TRANSFER CYCLES FOR SECRETORY TRANSFORMATION: A NARRATIVE REVIEW	Shamim, P. Thakur, N. Khatri, A. K. Yadav, B. Mishra, M.R. Khan, S.K. Behera, S.K. Jha	Pharmacology	European Chemical Bulletin	2023	2063-5346	10.48047/ecb/2023.12.si8.460
17	Hypoglycemic activity of Methanol Fraction of Solanum torvum (Swartz) fruits in normal and Streptozotocin induced Hyperglycemic rat models	Bishwanath Mishra, Durga M. Kar, Laxmidhar Maharana, Sujit Dash, Ganesh P. Mishra	Pharmacology	Research Journal of Pharmacy and Technology	2022	0974-360X	10.52711/0974 . 360X.2022.002 39
18	Dissolution Enhancement of Prednisolone using Liquisolid Compacts	Prabhat Kumar Sahoo, Sujit Dash , Amaresh Chandra Sahoo , Biswanath Mishra	Pharmacognosy	Journal of Pharmaceutical Science and Research	2022	0975-1459	

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Sl No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
19	Hypoglycemic activity of Methanol Fraction of Solanum torvum (Swartz) fruits in normal and Streptozotocin induced Hyperglycemic rat models	Bishwanath Mishra, Durga M. Kar, Laxmidhar Maharana, Sujit Dash , Ganesh P. Mishra	Pharmacognosy	Research Journal of Pharmay and Technology	2022	0974-3618	10.52711/0974-360X.2022.00239
20	Preliminary Phytochemical And HPTLC Analysis Of Sukumaram Kasayam: A Classical Ayurvedic Formulation	Sujit Dash *, Amaresh Chandra Sahoo, Bishwanath Mishra, and Pravat Kumar Sahu	Pharmacognosy	International Journal of Biology, Pharmacy and Allied sciences	2022	2277–4998	https://doi.org/10.31032/IJBPAS/2022/11.9.6369
21	Evaluation of Classical Ayurvedic Medicine for its Neuropharmacological Action	Sujit Dash, Amaresh Chandra Sahoo, Prabhat Kumar Sahoo, Sushanta Kumar Rout, Pratik Jena, Rajlaxmi Barik, Jyotiraditya Mohapatra	Pharmacognosy	International Journal of Pharmaceutical Investigation	2023	2230-973X	10.5530/ijpi.13.3.062
22	Design of Polylactic acid Nanoparticles by use of Central Composite Factorial Design Loaded with an Anti-inflammatory Drug	Satyajit Panda*, Nihar Ranjan Kar, Rama Prasad Padhy, Mithilesh Kumar, Somnath De, Shilpa Chandel, Chinmaya Mahapatra, Rajesh E Jesudasan	Pharmaceutics	Latin American Journal of Pharmacy	2023	ISSN 0326-2383	
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29	N-trimethyl chitosan and tripalmitin loaded solid lipid nanoparticles of tofacitinib citrate: Characterization and in-vivo anti-inflammatory assessment	Harekrishna Roy, Siva Prasad Panda, Sunil Kumar Panda, Amit Kumar Tripathi, Shani Kumar Srivastava, Bhabani Shankar Nayak, Pravind Kumar Singh, Gaurav Deep Singh	Pharmaceutics	Journal of Drug Delivery Sciences and Technology	2023	1773-2247	10.1016/j.jddst.2023.104789
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