



P. S. P. Sanstha's
Indira Institute
Of Pharmacy

A/P. Sadavali (Devrukh)
Tal: Sangameshwar,
Dist: Ratnagiri-415804
(Maharashtra)
Phone: 02354-241799
Fax: 02354-241499
E-Mail: info@iip.ind.in
Web: www.iip.ind.in
NAAC Accredited

6.5.2 Quality assurance initiatives of the institution.

DVV Query

Participation in NIRF and ISO quality audit/accreditation considered. HEI to provide documents in support of Collaborative quality initiatives with other institution(s)/ membership of international networks.

DVV Response


Provided the requested documents in support of Collaborative quality initiatives with other institution networks.




P. S. P. Sanstha's Indra Institute Of Pharmacy

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UGC 2f Recognitison

 विश्वविद्यालय अनुदान आयोग
University Grants Commission
(विद्या मंत्रालय, भारत सरकार)
(Ministry of Education, Govt. of India)
बहादुर शाह जफर मार्ग, नई दिल्ली - 110 002
Bahadur Shah Zafar Marg, New Delhi - 110 002

 उच्च शिक्षण विभाग

F. No. 8-2/2020(CPP-4/C) (Speed Post) June, 2021

The Registrar,
University of Mumbai
M.G. Road, Fort, Mumbai - 400 032
Maharashtra

15 JUN 2021

Sub: - Recognition of College under Section 2 (f) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter no. IIP/UGC 2(F)/12(B)/179/2020-21 dated 08.02.2021 received from the Principal, P.S.P. Sanstha's Indra Institute of Pharmacy, A/P-Sadavali (Devrukh), Tal. Sangameshwar, Dist. Ratnagiri-415 804, Maharashtra on the above subject and to say that it is noted that the College is un-aided/self-financed and temporarily affiliated to University of Mumbai, Mumbai. I am further to say that the name of the following College has been included in the list of Colleges prepared under Section 2(f) of the UGC Act, 1956 under the head 'Non-Government Colleges teaching upto Bachelor's Degree'-

Name of the College	Year of Establishment	Remarks
P.S.P. Sanstha's Indra Institute of Pharmacy, A/P-Sadavali (Devrukh), Tal. Sangameshwar, Dist. Ratnagiri-415 804, Maharashtra. AISHE CODE:- C-34110	2008	The college does not fulfill the requirement of permanent affiliation. Therefore, the college is not eligible to receive Central assistance under Section 12B of the UGC Act, 1956.

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,
(Tirath Ram)
Under Secretary

Copy to:-
1. The Principal,
P.S.P. Sanstha's Indra Institute of Pharmacy,
A/P-Sadavali (Devrukh), Tal. Sangameshwar,
Dist. Ratnagiri-415 804,
Maharashtra.

Office of the Principal
Indra Institute of Pharmacy, Sadavali.
Inward No - 415
Date - 25/06/2021
Reviewed To - UGC/24/1/8 Ph
Signature -

(Madan Lal)
Section Officer

(Continued at page 2)




Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



P. S. P. Sanstha's
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NAAC CERTIFICATE



EC(SC)/28/A&A/214.1




Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Quality Profile

Name of the Institution : Indira Institute of Pharmacy
Place : Sadavali, Sangameshwar, Dist. Ratnagiri, Maharashtra

Criteria	Weightage (W _i)	Criterion-wise Weighted Grade Point (Cr WGP _i)	Criterion-wise Grade Point Averages (Cr WGP _i / W _i)
I. Curricular Aspects	100	130	1.30
II. Teaching-Learning and Evaluation	350	780	2.23
III. Research, Consultancy and Extension	150	280	1.87
IV. Infrastructure and Learning Resources	100	240	2.40
V. Student Support and Progression	100	270	2.70
VI. Governance, Leadership & Management	100	190	1.90
VII. Innovations and Best Practices	100	200	2.00
Total	$\sum_{i=1}^7 W_i = 1000$	$\sum_{i=1}^7 (Cr WGP_i) = 2090$	

$$\text{Institutional CGPA} = \frac{\sum_{i=1}^7 (Cr WGP_i)}{\sum_{i=1}^7 W_i} = \frac{2090}{1000} = \boxed{2.09}$$

Grade = **B**

Date : October 30, 2017



[Signature]
Director

- This certification is valid for a period of Five years with effect from October 30, 2017
- An institutional CGPA on seven point scale in the range of 3.76 - 4.00 denotes A⁺ grade, 3.51 - 3.75 denotes A⁺ grade, 3.01 - 3.50 denotes A grade, 2.76 - 3.00 denotes B⁺ grade, 2.51 - 2.75 denotes B⁺ grade, 2.01 - 2.50 denotes B grade, 1.51 - 2.00 denotes C grade
- Scores rounded off to the nearest integer



[Signature]
Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



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Institute participation in NAAC pilot study

प्रो. एस.सी. शर्मा
निदेशक
Prof. S.C. Sharma
Director



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Date 27-12-2018

To,
Dr. B.C. Hatapakki
Principal
Indira Institute of Pharmacy,
Sadavali, Sangameshwar,
Ratnagiri - 415804, Maharashtra

Dear Sir / Madam,

Greetings from NAAC,
Merry Christmas & Happy New Year 2019

Sub: Pilot Study of NAAC Manual of Health Sciences for Colleges from 27th December 2018 –reg

This is in continuation of our telephonic conversation with you and your acceptance to partner with us for pilot study. Thank you for the same.

It has been planned to do pilot study of newly developed NAAC manual of Health Sciences for Colleges in selected Health Sciences Colleges from **27th December 2018** and the Pilot study closes on **15th January 2019**. In this regard we glad to inform that yours is one of the prestigious Colleges selected for pilot study. **After the Pilot study, kindly send duly filled in data templates along with the response sheet in the excel format provided by NAAC.**

This will also help the Institution to understand new process in RAF related to Health Sciences Colleges. Those Colleges which are likely to come to NAAC for A&A within next one year can prepare in advance as well.

Kindly nominate **IQAC Director/ Co-ordinator** and send us name & contact details as early as possible and also inform the same to him/her.

We are sending herewith following documents related to Pilot study:

1. Handbook for Pilot study.
2. Manual of Health Sciences for Colleges (Complete final version with Part A & Part B)
3. Extended data sheet and Excel sheet for recording response.
4. IIQA for Colleges & Student Satisfaction Survey (SSS) questionnaire

Your valuable inputs/suggestions/comments will be of great help to NAAC to understand ground realities and fine tune the tool / instrument itself and also to evolve benchmarks.

Your cooperation is very much solicited in this regard.

Regards

Yours Sincerely,


(Director)

पो. ओ. बाक्स नं. 1075, नागरभावी, बेंगलूरु - 560 072, भारत. P.O.Box No.1075, Nagarbhavi, Bengaluru - 560 072, INDIA
दूरभाष Phone : +91-80-23210267 (D), 23005112, 114, 115, फेक्स Fax : +91-80-23210268
ई-मेल : e-mail : director.naac@gmail.com वेबसाइट : Website : www.naac.gov.in




Principal
Indira Institute of Pharmacy
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Dr. Basavaraj. Hatapakki, M.Pharm., PhD
Professor & Principal
P.S.P.Sanstha's
Indra Institute of Pharmacy,
A/P : Sadavali (Devrukh) - 415 804
Taluk :Sangmeshwar, Dist : Ratnagiri
Maharashtra State, India.
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E-Mail : info@iip.ind.in
URL: <http://www.iip.ind.in>

Confidentiality Note: This e-mail is confidential and intended for the recipient alone. This may constitute privileged information and if you are not the intended recipient please delete the message

From: "Dr. K. R. Vishnu Mahesh" <vishnumahesh.naac@gmail.com>
Sent: Fri, 28 Dec 2018 11:48:01
To: bchatapakki@rediffmail.com
Subject: Pilot Study of NAAC Manual of Health Sciences for Colleges from 27th December 2018 –reg

To,
Dr. B.C. Hatapakki
Principal
Indra Institute of Pharmacy,
Sadavali, Sangameshwar,
Ratnagiri - 415804, Maharashtra

Dear Sir / Madam,

Greetings from NAAC,

Merry Christmas & Happy New Year 2019

Sub: Pilot Study of NAAC Manual of Health Sciences for Colleges from 27th December 2018 –reg




Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



P. S. P. Sanstha's
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Regards

Yours Sincerely,





--

Thanking you
With Best Regards

Dr. K. R. Vishnu Mahesh M.Sc., Ph.D
Assistant Adviser
National Assessment and Accreditation Council (NAAC)
An Autonomous Institution of the University Grants Commission
(Ministry of Human Resource Development, Government of India)
P. O. Box. No. 1075, Nagarbhavi, Bangalore - 560 072
Website: www.naac.gov.in
Phone: +91-80-23005294

"Save Paper. Print Only If You Must! Save a tree."

6 attachments

-  **Colleges_-_Pilot_Study_Handbook_for_HSM_-_21-12-18.doc**
138K
-  **Extended_data_sheet_and_Excel_sheet_for_recording_response.xls**
297K
-  **manual-of-health-science-college.pdf**
5254K
-  **SSS-questions.pdf**
734K

<https://mail.google.com/mail/u/0/?ik=f6df7a531f&view=pt&search=all&permmsgid=msg-f%3A1754457359571143155&simpl=msg-f%3A175445735957...> 2/3




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FEEDBACK / SUGGESTIONS ON THE DRAFT NHEQF FROM THE STAKEHOLDERS OF OUR INSTITUTE

To
Shri. Rajnish Jain
Secretary,
University Grants Commission (UGC)
Bahadur Shah Zafar Marg,
New Delhi - 110002.
011-23604446, 011-23604200.

Subject: Feedback/ suggestions on the draft NHEQF from the stakeholders.....reg.

Reference: Your notification published on the UGC website in January 2022. (F.No.15-2/2021 QIP)

Respected Sir

Adverting to the above-cited subject and reference as one of the stakeholders we wish to give the following feedback/ suggestions with respect to our pharmacy programs as requested by you on the draft copy of NHEQF.

1. Medicine and law are out from this NHEQF, with reference to this we also feel that even Pharmacy being a professional course should also be out from the NHEQF.
2. Exit after every year at levels 5, 6 and 7 to get a certificate, diploma, or degree after 4 years (but level 7, i.e. degree with no status of research) can undermine the value of pharma graduates. The industry will get the laborers at a lower cost and the median salary of pharma graduates can be a challenge. M Pharm is not mentioned at level 9.
In Table 11, B. Pharm is not mentioned, but B.E. or B. Tech. programs which are of 4 years are mentioned at level 7.
3. Entry to level 10 (Ph. D.) can also be after Bachelor's degree (Hon./research).
But considering B. Pharm as just Bachelor's degree (and not Hon/Research) as per the draft copy definition, entry to Ph. D. directly after B. Pharm may not be permissible.
4. After every year, exit is possible for students. Students: teacher ratio and appointment of permanent teacher can be uncertain in such kind of situation. Also estimate of fees, budget and running of the institute in a financially viable way for self-financed private institutes can be a difficult task.
5. Like in a Western country, Pharmacists should serve a strong link between physicians and patients, but with a certificate, diploma, degree level of splitting of programs, recognition to Pharmacist as Clinical Pharmacologist can be still difficult.

Thanking you

Yours sincerely
Dr. Amol B. Khade, M.Pharm, Ph.D.
I/c Principal
P.S.P.Sanstha's Indira Institute of Pharmacy, Sadavali
Devrukh, Ratnagiri, Maharashtra.
Phone: 02354-264799,
Mobile No. 9482073920/9881675337
Email: info@iip.ind.in
URL: <http://www.iip.ind.in>
ORCID Research Profile

 UGC.PDF
148K





Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



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URL : www.iip.ind.in

Ref No.: IIP/UGC / 236/2021-22
Date: 21/02/2022

To
Shri. Rajnish Jain
Secretary,
University Grants Commission (UGC)
Bahadur Shah Zafar Marg,
New Delhi - 110002.
011-23604446, 011-23604200.

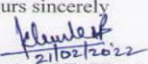
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5. Like in a Western country, Pharmacists should serve a strong link between physicians and patients, but with a certificate, diploma, degree level of splitting of programs, recognition to Pharmacist as Clinical Pharmacologist can be still difficult.

Thanking you,

Yours sincerely

21/02/2022
Dr. Amol B. Khade
I/c Principal



Approved by AICTE & PCI, New Delhi, Affiliated to University Of Mumbai & Recognised by D. T. E., Govt. of Maharashtra




Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



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GAZETTE NOTIFICATION PUBLISHED ON THE
CDSCO WEBSITE DATED 09/02/2022

To
Central Drugs Standard Control Organization (CDSCO)
Directorate General of Health Services,
Ministry of Health and Family Welfare,
Government of India FDA Bhavan,
ITO, Kotla Road, New Delhi -110002

Subject: Objection on GSR 104(E)_Regulation of sale of medical devices via registration of premises under MDR, 2017 Reg.

Reference: Your Gazette notification published on the CDSCO website dated 09/02/2022.

Respected Sir/ Madam

Adverting to the above-cited subject and reference, we sincerely express our objection to the draft GSR 104(E)_Regulation of sale of medical devices via registration of premises under MDR, 2017 to amend rules for issuing a certificate of registration for sale or distribute medical devices including *in vitro* diagnostic medical device to 12th pass persons with one year experience or to any graduate. We confirm that lakhs of registered pharmacists throughout the nation are already jobless and moreover it's a matter of Public Health, hence it should not be handed over to any unqualified person in the pharmaceutical sector. We request you to rethink and consider our appeal for the same before making a final decision.

Instead, we strongly suggest an amendment to the existing Law that, the Government of India should allow drug licenses also to be issued only to the registered Pharmacists, make sure that other than registered pharmacists no one can become owner/proprietor/director of Medical stores/ Pharmacy.

Thanking you

Yours sincerely

Dr. Amol B. Khade, M.Pharm, Ph.D.
I/c Principal
P.S.P.Sanstha's Indra Institute of Pharmacy, Sadavali
Devrukh, Ratnagiri. Maharashtra.
Phone: 02354-264799,
Mobile No. 9482073920/9881675337

<https://mail.google.com/mail/u/0/?ik=f6df7a531f&view=pt&search=all&permmsgid=msg-f%3A1754458772754498052&siml=msg-f%3A175445877275...> 1/2




Principal
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Email : info@iip.ind.in
URL : www.iip.ind.in

Ref No.: IIP/IQAC/ 235/2021-22
Date: 21/02/2022

To
Central Drugs Standard Control Organization (CDSCO)
Directorate General of Health Services,
Ministry of Health and Family Welfare,
Government of India FDA Bhavan,
ITO, Kotla Road, New Delhi -110002

Subject: Objection on GSR 104(E)_Regulation of sale of medical devices via registration of premises under MDR, 2017 Reg.

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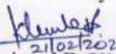
Respected Sir/ Madam,

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Thanking you

Yours sincerely


21/02/2022
Dr. Amol B. Khade
I/c Principal



Approved by AICTE & PCI, New Delhi, Affiliated to University Of Mumbai & Recognised by D. T. E., Govt. of Maharashtra




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CERTIFICATE OF ESTABLISHMENT OF
INSTITUTIONS INNOVATION COUNCIL



[Signature]
Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



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Letter of Appreciation

Dear Sir/Madam,

Please accept our sincere gratitude to all the chief functionaries and every members of the IIC Institution's Innovation Council (IIC) of Prabodhan Shikshan Prasarak for the continuous support and contribution towards building the innovation and entrepreneurship culture development in your campus and also extending support to help other IIC institutions towards growth of the IIC network during the academic year 2021-22.

Chief Functionaries of the IIC at Prabodhan Shikshan Prasarak, Ratnagiri

Name	Position
Mr Sumeet M Kharat	President
Sumeet Kharat	NISP Co-ordinator
Mr. Vivek S. Kulkarni	Internship Activity Coordinator
Mr. Sujit K. Nagare	Vice President
Mr. Tanmay L. Patwardhan	Innovation Activity
Mr. Vipul A Sansare	Social Media
Mrs. Ketaki S. Dhane	IPR Activity Coordinator
Mr. Sumit M. Kharat	Start up Activity Coordinator
Nikul N. Patel	Convener
Mrs. Medha A. Khade	NIRF Coordinator
Ms. Nikita G. Goonkar	ARIIA Coordinator

As we are progressing towards a 'quality' driven I&E ecosystem development, we strongly believe that the IIC model and its unique structure is definitely putting your HEI's thoughts, actions and aspirations in a systematic way to achieve inclusive and holistic development of the ecosystem.

Thank you & regards.

Yours Sincerely,

Dipan Kumar Sahu



Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



P. S. P. Sanstha's
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LINK

[http://www.iip.ind.in/iip/assets/data/ARIIA%20 %202022.pdf](http://www.iip.ind.in/iip/assets/data/ARIIA%20%202022.pdf)

**(Link for ATAL Ranking of Institutions on innovation
Achievements)**




Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



P. S. P. Sanstha's
Indra Institute
Of Pharmacy

A/P. Sadavali (Devrukh)

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(Maharashtra)

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Web: www.iip.ind.in

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LINK FOR GREEN AUDIT

<http://www.iip.ind.in/iip/assets/data/iqac/criteria7/Greenvio%20ABRIDGED%20Green%20IIP%20060422%20@%202105.pdf>




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LINK FOR ENERGY AUDIT

<http://www.iip.ind.in/iip/assets/data/iqac/criteria7/Greenvio%20ABRIDGED%20Energy%20IIP%20060422%20@%202105.pdf>




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LINK FOR ENVIORNMENTAL AUDIT

<http://www.iip.ind.in/iip/assets/data/iqac/criteria7/Greenvio%20ABRIDGED%20Envvt%20IIP%20060422%200@%202105.pdf>




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**CERTIFICATE OF RECOGNITION FOR MAXIMUM
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COLLABORATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS THROUGH IQAC

Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To	Link to the Activity report on the website
2021-2022	“Impact Lecture Series” Session II (Scope of innovation in the Pharmaceutical industry and Role of incubation center in startup journey)	176	2/7/2022	http://www.iip.ind.in/iip/assets/data/seminars/Impact%20Lecture%20series%20Session%20II.pdf
2021-2022	“Impact Lecture Series” Session I (Startup and Entrepreneurship opportunities in Healthcare and overview of the Indian patent with respect to global patenting system)	150	18/06/2022	http://www.iip.ind.in/iip/assets/data/seminars/Impact%20Lecture%20series%20Session%20I.pdf
2021-2022	“Awareness on Intellectual Property Rights”	175	22/02/2022	http://www.iip.ind.in/iip/assets/data/seminars/IPR%20Webinar%202021-2022.pdf
2021-2022	“One day national level webinar on Research perspectives in academics and Overview of research methodology”	200	30/01/2022	http://www.iip.ind.in/iip/assets/data/seminars/Webinar%20Report%202021-2022.pdf
2019-2020	One day National seminar on research methodology	150	28/09/2019	http://www.iip.ind.in/iip/assets/data/seminars/Research%20methodology%20Report.pdf




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**DOCUMENTS PERTAINING TO THE COLLABORATIVE QUALITY INITIATIVES WITH OTHER
INSTITUTIONS THROUGH IQAC**

A Report on a "Impact Lecture Series" Session II

Date: 02nd July 2022

IIP institute innovation council has successfully completed session 2 of the impact lecture series. The impact lecture series is sponsored by the ministry of educations, AICTE, and the ministry of HRD's IIC. The complete series was bifurcated into 2 sessions. The first session of the impact lecture series was completed on 18/06/2022. The Second session of the impact lecture series was conducted on 02/07/2022.

The Inauguration of the session was started with the formal introduction of the session by Convener IIC by Mr. Nikul Patel at 9:30 a.m. Further, the principal Dr. Amol B. Khade of the institute expresses the objective of the session. They concluded by expressing thanks to the MoE, AICTE, and IIC for providing the sponsorship for the impact lecture series. The second session of the series comes with two different topics from two separate guest speakers. The first topic of the session was "Scope of innovation in the Pharmaceutical industry" The first lecture starts at 10:00 a.m. Mr. Sachin Lokapure was the resource person who deliver an excellent session on the above-mentioned topic. Mr. Lokapure sir covers multiple points and lastly compiles them together, and explains how these are correlated. While correlating this Mr. Sachin sir, starts with startup procedure, IPR and patenting, funding, and research grant. How these parameters are useful and can use as a business tool he explains in his session. Further he simulate his presentation for a better understanding of the topic. At last, he provides some case studies which bring the topic to the next level. At the end of the first lecture, participants' queries were resolved by Mr. Sachin Lokapure sir. The gratitude towards the first eminent speaker was expressed by Mr. Sumeet M. Kharat (IIC President).

The second topic of the session was "Role of incubation center in startup journies" The second lecture starts at 11:30 a.m.




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Mr. Sachin Kumbhoje was the resource person who deliver an excellent session on the above-mentioned topic. Mr. Sachin Kumbhoje starts his session in an innovative way. The session starts with a formal question-answer session which gives idea to speaker the current knowledge of the participants on the mentioned topic. Further, he explains the basic concept of an incubation center and how it will be beneficial to students and faculty. In his session, he explains the procedure of application of the incubation center and how it works for the benefit of the students. Also, he gives recent examples of some startups which are the results of the incubation center. At the end of the second lecture, participants' queries were resolved by Mr. Sachin Kumbhoje. The gratitude towards the second eminent speaker was expressed by Mr. Sumeet M. Kharat (IIC President) During the session, Ms. Sanika Narvankar introduces the first eminent speaker, while Ms. Gauri Thatte introduces the second eminent speaker. Overall 176 participants were benefited via this impact lecture series. Finally, the whole session was concluded with a vote of thanks by Ms. Akshata Jadhav. The session ends formality of feedback on sessions and assessments that have been taken. E-certificates were distributed to the participants on the attendance and assessment criteria.

Event photographs



Kumbhoje
Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



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Event brochure

Prabodhan Shikshan Prasarak Sanstha's

Indra Institute of Pharmacy
Sadavali

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MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

AICTE
(All India Council of Technical Education)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

Impact Lecture Series, Session 2
Sponsored by
MoE's Innovation Cell (MIC), AICTE, New Delhi

On 2nd July 2022

MR. SACHIN KUMBHOJE
Serial Entrepreneur & StartUp Coach
Kolhapur, Maharashtra.

MR. SACHIN LOKAPURE
Managing Director
SAGLO Research Equipments.

Title: Role of Incubation Centers In The Startup Journey
Time: 10:00 am - 11:30 am

Title: Scope of Innovation In Pharmaceutical Industry
Time: 11:30 am - 01:00 pm

Who Can Attend
Students, Teachers, Startup enthusiasts,
Entrepreneurs & Industry Professionals

Certificates will be provided to attendees after qualifying the assessment test and filling out the feedback form at the end of the session

ORGANIZING COMMITTEE

Mr. N. M. Patel
Convener IIC

Mr. S. M. Kharat
President IIC

Dr. A. B. Khade
Principal IIP



Details of resource person

Mr. Sachin Lokapure

- Designation and organization: Managing director, SAGLO
- Email id: sachinlokapure@yahoo.in
- Contact No.: +91-9890650506

Mr. Sachin Kumbhoje

- Designation and organization: Serial Entrepreneur & startup coach, Opex
- Email id: director@opexindia.com
- Contact No.: +91-8806342656



Kharat
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A Report on a "Impact Lecture Series" Session I

Date: 18th June 2022

IIP institute innovation council has successfully completed session 1 of the impact lecture series.

The impact lecture series is sponsored by the ministry of educutions, AICTE, and the ministry of HRD's IIC. The complete series was bifurcated into 2 sessions. The first session of the impact lecture series was conducted on 18/06/2022.

The Inauguration of the session was started with the formal introduction of the session by Convener IIC by Mr. Nikul Patel at 9:30 a.m. Further, the principal Dr. Amol B. Khade of the institute expresses the objective of the session. They concluded by expressing thanks to the MoE, AICTE, and IIC for providing the sponsorship for the impact lecture series.

The first session of the series comes with two different topics from two separate guest speakers. The first topic of the session was "Startup and Entrepreneurship opportunities in Healthcare." The first lecture starts at 10:00 a.m. Ms. Anjori Parendekar (Mrs. Anjori Sachin Kumbhoje) was the resource person who deliver an excellent session on the above-mentioned topic. Ms. Anjori mam explains all modules for eneterprenerhip. During her session, she explores step by step process for any startup. Also, she makes aware participants during pandemic situations and how she can able to tackle new arising problems faced by any startup. She explains and evidences her talk with numerous case studies.

At the end of the first lecture, participants' queries were resolved by Ms. Anjori mam. The gratitude towards the first eminent speaker was expressed by Mr. Sumeet M. Kharat (IIC President) The second topic of the session was "The overview of the Indian patent with respect to global patenting system." The second lecture starts at 11:30 a.m. Dr. Umesh Bankar was the resource person who deliver an excellent session on the above-mentioned topic. Dr. Umesh explains both Indian as good ass global patenting systems separately. Further, he correlates both the system very well which brings more attention to the participants. Then, he proceeds with some simulating presentation, which clears all the process of patenting.




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Detailed exposure to the global patenting system clears the process for the audience. At the end of the second lecture, participants' queries were resolved by Dr. Umesh Bankar. The gratitude towards the second eminent speaker was expressed by Mr. Sumeet M. Kharat (IIC President) During the session, Ms. Sanika Narvankar introduce the first eminent speaker, while Ms. Gauri Thatte introduces the second eminent speaker. Finally, the whole session was concluded with a vote of thanks by Ms. Akshata Jadhav.



Event brochure

Prabodhan Shikshan Prasarak Sanstha's
Indra Institute of Pharmacy, Sadavali
Impact Lecture Series
Sponsored by
MoE's Innovation Cell (MIC), AICTE, New Delhi
Session: I Date: 18/06/2022

Eminent Speaker 1

Ms. Anjori Parandekar
Co-founder & Designated Partner,
DREE EduTech LLP
Topic: StartUp and Entrepreneurship
Opportunities in Healthcare
Time: 10:00 am - 11:30 am

Eminent Speaker 2

Dr. Umesh Bankar
Professor of Pharmaceutical Technology and an
Independent Consultant/Advisor
Topic: Overview of Indian Patent with
respect to global patenting system.
Time: 11:30 am - 01:00 pm

Open For
UG, PG, students of all
streams

Online Platform,
Google Meet

Free Registration
Link For Registration
<https://forms.gle/83mKPNVgkz2m8B8to8E8L8P>

Mr. S. M. Kharat
President IIC
Indira Institute of Pharmacy,
Sadavali.

Dr. Amol B. Khade
Principal
Indira Institute of Pharmacy,
Sadavali.




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Details of resource person

Ms. Anjori Parandekar

- Designation and organization: Serial Entrepreneur & startup coach, Opex
- Email id: director@opexindia.com
- Contact No.: +91-8806342656

Dr. Umesh Bankar

- Designation and organization: Director, Goa Centre for Excellent in Intellectual Property Rights, Goa
- Email id: ubankar@gmail.com




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A Report of Webinar on “Awareness on Intellectual Property Rights”

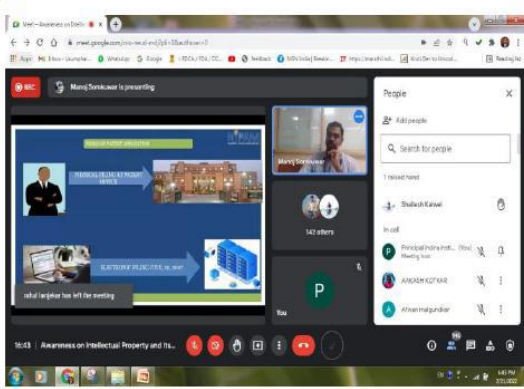
Date: 22nd February 2022

IIP Institute Innovation Council successfully conducted a Webinar on “Awareness on Intellectual Property Rights” on 21st February 2022. Mr. Manoj G Somkuwar was the resource person, who delivers an excellent session covering all the forms of IPR. Institute Innovation Council of our institute jointly organized this program with NIPAM, Ministry of Commerce, and under the banner Azadi ka Amrit Mahotsav. Students are well aware of patent, trademark, and copyright, with its application procedure. Mr. Manoj sir, conceptually clear the topic, considering the proper utilization of this tool towards the pharmacy students. Mr. Manoj sir made aware the students by simulation with resolving queries from students. IIC council members, in-house faculties, and students of the institute show their participation in this webinar. About 175 participants attended the webinar. The program was well organized by Mr. Sumeet M. Kharat (President IIC), Mrs. Ketaki S. Dhane (IPR Coordinator, IIC), and all members of IIC IIP, under the prominent leadership of I/C Principal Dr. Amol B. Khade sir. The webinar was concluded with a vote of thanks by Miss Nikita N. Gaonkar (ARIIA Coordinator, IIC) showing gratitude towards the recourse person and all the attendees of the webinar.

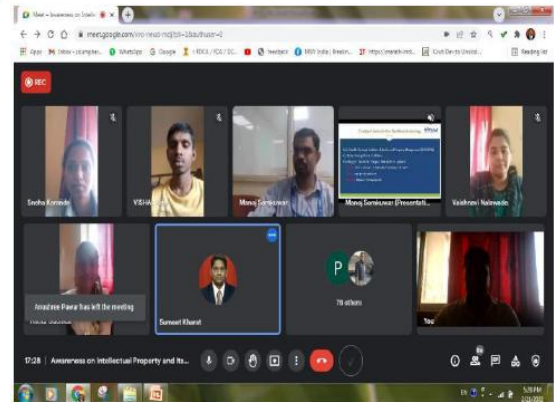



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Event photographs



Event Evidence from Participants



Khandarkar
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**Awareness on Intellectual
Property Rights**

RESOURCE PERSON
Mr. Manoj G. Somkuwar
Assistant Controller of Patents and Designs,
Patent Office-Mumbai, Department for Promotion of
Industry and Internal Trade
Ministry of Commerce & Industry, Government of INDIA.

Mrs. Ketaki Dhane
IPR Coordinator
IC

Mr. Sumant Kharkar
President
IIC

Dr. Anmol B. Khande
Principal
IIP

11/02/2021
04.00 PM Onwards

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www.iipind.in

<https://meet.google.com/vvo-neud-mdj>

Details of resource person

Mr. Manoj G. Somkuwar

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- Contact No.: +91-9021152196



Khande
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A Report on “One day national level webinar on Research perspectives in academics and overview of research methodology”

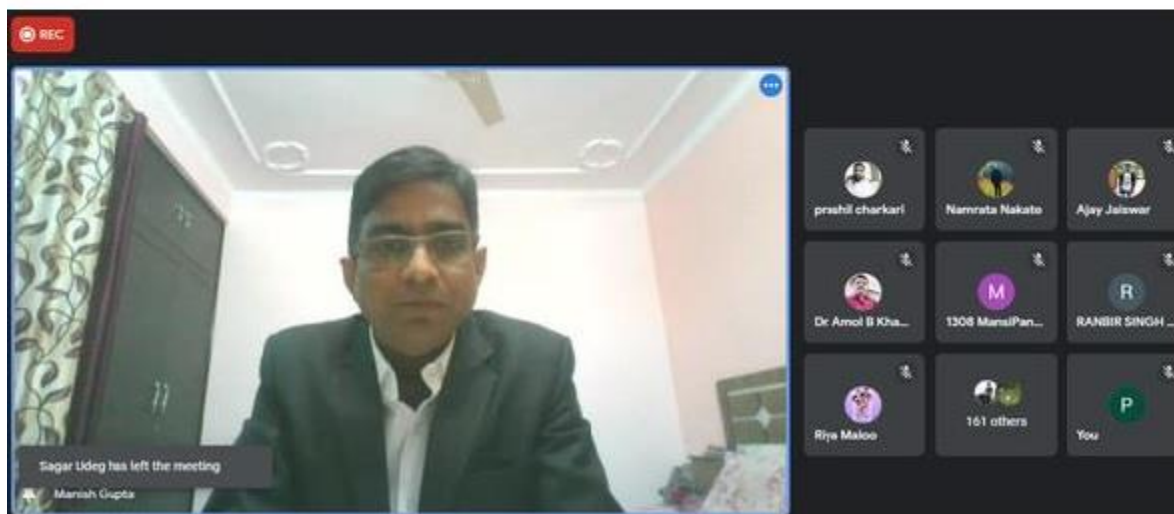
Date: 30th January 2022

Prabodhan Shikshan Prasarak Sanstha's, Indira Institute of Pharmacy, Sadavali organized one day national level webinar on 'Research perspectives in academics and overview of research methodology in association with School of Pharmaceutical Sciences, Jaipur National University, Jaipur and APTI, Mumbai region on 30th January 2022. Dr. Birendra Shrivastava (Director: School of Pharmaceutical Sciences, JNU, Jaipur), Dr. Manish Kumar Gupta (Professor, School of Pharmaceutical Sciences, JNU, Jaipur) and Dr. Rakesh Somani (Principal, School of Pharmacy, DY Patil University, Navi Mumbai, Maharashtra) were resource persons for webinar. Dr. Birendra Shrivastava highlighted importance of research and research projects in academics. Dr. Manish Kumar Gupta well represented key aspects of project report writing and elements of project report. Dr. Rakesh Somani showed importance of green chemistry in academic research. Dr. Amol B. Khade (Principal, Indira Institute of Pharmacy) showed referencing and citations in project report using Mendely software through practical means. The webinar was well planned and organized by faculties of institute. More than thousand research scholars and undergraduate students from across the country registered for the webinar.




Principal
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Event photographs



K. S. S.
**Principal
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Event brochure

**PSPS's
Indra Institute of Pharmacy,
Sadavali, Devrukh, 415804.**
Organizes
National level webinar
In association with APTI (Mumbai region)
**'Research perspectives in academics
and an overview of research methodology'**
30th January 2022
EMINENT SPEAKERS

 Dr. Birendra Shrivastava Director, School of Pharmaceutical Sciences, Jaipur National University, Jaipur, (RJ).	 Dr. Rakesh Somani Professor and Principal, School of Pharmacy, DY Patil University, Navi Mumbai, (MH)	 Dr. Manish Kumar Gupta Professor, School of Pharmaceutical Sciences, Jaipur National University, Jaipur, (RJ)
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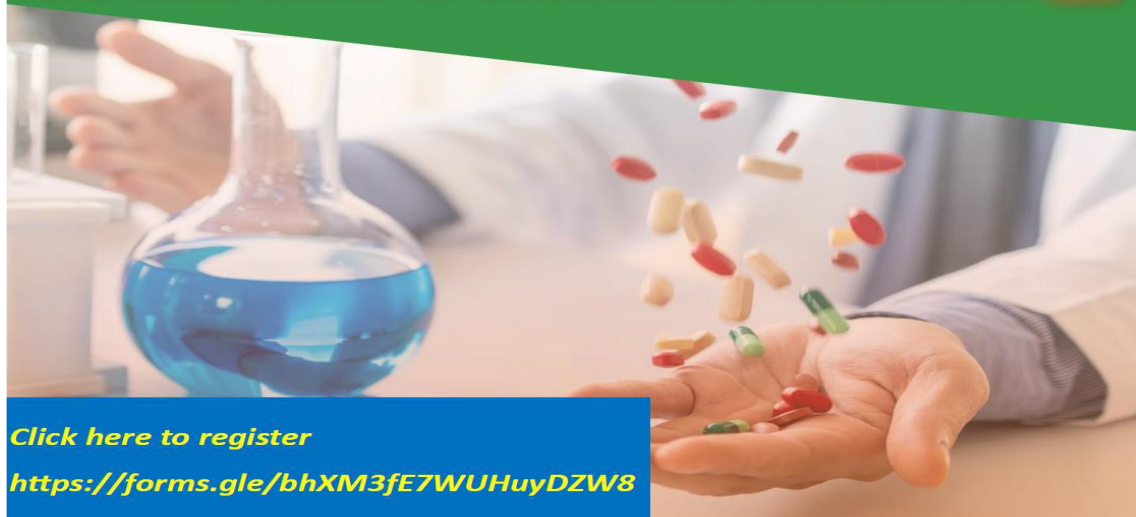
Prabodhan Shikshan Prasarak Sanstha's

Indira Institute of Pharmacy
Organizes

National level webinar

In association with APTI (Mumbai region)

**'Research perspectives in academics
and
an overview of research methodology'**



Click here to register

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Details of resource person

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Dr. Rakesh Somani

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Dr. Manish Kumar Gupta

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A Report on “One day national seminar of Research Methodology”

Date: 28th September 2019

IQAC of Indira Institute of Pharmacy has successfully conducted one day National level seminar on "Research Methodology" on 28th September 2019 at Indira Institute of Pharmacy, Sadavali. The seminar was organized in association with Student Scientific Club of IIP and sponsored by Urjau wellness research center, Goa. The seminar was organized mainly for UG, PG students and faculty to understand the research methodologies. For the inaugural function Hon. Shri. Ravindraji Mane (Chairman, Prabodhan Shikshan Prasarak Sanstha, Ambav), Sau. Nehaji Mane (Executive chairperson, Prabodhan Shikshan Prasarak Sanstha, Ambav), Dr. B.C. Hatpakki, Dr. Krishna Iyer (Professor, Bombay college of Pharmacy, Mumbai) and other dignitaries were present.

More than 125 delegates from Goa, Karnataka and Maharashtra were participated in the seminar. Students and delegates had wonderful experience to meet & listen scientific content & take home value from experts in the field. Dr. Krishna Iyer, Dr. Supriya Hyam, Dr.Rahul Dandage & Mr. A. B. Khade were present as the resource person.




Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)

Event photographs



K. S. S.
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Indra Institute of Pharmacy
Sadavali (Devrukh)



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Event brochure

REGISTRATION FEES

UG/ PG Students 300/-
Research scholar/ Faculty 400/-
Industry Persons 500/-

Registration Fees Includes Welcome kit,
Certificate, High Tea & Working Lunch.
Last Date of Registration: 14th Sept 2019.

Entry restricted for first 100 participants.

ACCOMMODATION

For Accommodation, Please Contact the
committee well in advance.

REGISTRATION FORM

Name _____
Designation _____
Organization / Institute _____
Address _____
Mobile _____
Email _____
Particulars of fees: Rs. _____
Registration fees: Cash RTGS NEFT
Transaction ID: _____ Date: / /20
Accommodation Required Yes / No
Date: / /2019

Bank Details

A/C Name : Principal, Indira Institute of Pharmacy,
Sadavali
Bank Name : Bank of India, Devrukh Branch
A/C No. 144010110001260
IFSC CODE : BKID0001440

Participant Signature _____ Sign & Seal
Head of the Institute

Note : Registration can be also done through
Google form available on institute Fb page

CHIEF PATRON

Hon. Shri. Ravindraji Mane
Chairman,
Prabodhan Shikshan Prasarak Sansthas, Ambav.

PATRON

Hon. San. Nehaji R. Mane
Executive Chairperson, P.S.P.S. Ambav.

CONVENER

Dr. B. C. Hatapakki
Principal, Indira Institute of Pharmacy, Sadavali.

COORDINATOR

Mr. A. B. Khade
HOD, Pharmaceutical Chemistry. I.I.P.
(9482073920)

Registration Committee

S. K. Nagare, V.S. Kulkarni, K.S. Dhane,
P.S.Kapashe (7588177050, 9421141242)

Technical Committee

M.A.Khade, V.A.Sansare, T.L.Patwardhan,
T.P. Chalake

Transportation & Accommodation Committee

P.B.Gurav, A.M.Kanawaje, S.M. Kharat,
P.N.Charkari (9545766765, 8390717949)

Organizing Committee

V. A. Gawade, N.M.Mulani, S. S. Pilankar,
B. P.Dongare, N. V. Nakharekar



Accredited by NAAC with 'B' Grade

CII
Confederation of Indian Industry
AICTE - CII Survey 'GOLD' Ranking (2018)

Prabodhan Shikshan Prasarak Sanstha's
INDIRA INSTITUTE OF PHARMACY, SADAVALI

One day National Seminar
on
"Research Methodology"
In association with
IQAC & Students Scientific Club, IIP
Sponsored By
URJAYU
Urjayu Wellness Research Center, Goa

Saturday 28 September 2019

A.P. Sadavali(Devrukh), Tal: Sangameshwar, Dist: Ratnagiri Pin- 415 804 (Maharashtra)
Phone : (02354) 261799 Fax : 261799 Email : info@iip.ind.in URL: www.iip.ind.in
Follow us on our fb page @iipsadavali

The only Pharmacy College in Konkan Region to be Accredited by NAAC



Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)

Event brochure

INVITATION

One day national level seminar on
Research methodology

Dear delegates

It gives us immense pleasure to invite you for your participation in one day national level seminar on "Research Methodology" organized by PSPS's Indira Institute of Pharmacy. We will be glad to welcome you all for the seminar.

About Sanstha

The Sanstha was established in the year 1995, under the dynamic Chairmanship of Honorable Shri. Ravindraji M. Mane, Ex-Minister of state for Finance and Planning, Development, Irrigation, Water Supply and Sanitation, Government of Maharashtra, and Ex-Guardian Minister Ratnagiri District with objective of quality education to the rural people. The santha is running various institutions & imparting the education from KG to PG in different streams.

About the institute

Indira Institute of Pharmacy (IIP) was established in the year 2008, and is the only Pharmacy institute accredited by NAAC in the Konkan region. The institute was also ranked by AICTE CII Survey ranking under GOLD category for the year 2018. The institute has very strong industry institute interaction with Adler Mediquip. As the landmark, we believe in changing our teaching methodologies in accordance with the changing scenario's of Pharmaceutical industry. We have established our self as the leading institute in research through the consultancies and various research activities conducted persistently. We believe in quality and excellence and we are continuously striving to achieve the same.

Our Vision....

To be a prime source of pharmaceutical education in Konkan region for developing globally competent and professional pharmacists.

Our Mission....

- To imbibe scientific and technical knowledge with ethical values to our students.
- To impart personality development skills to the students.
- To encourage and support faculty at par with the recent trends in pharma profession.
- To contribute to the national healthcare system by providing competent pharmacists.

About Seminar:

The research projects are not only mandatory for PG & Research Scholars but also for UG students as per newly designed curriculum. In view of this we have organized this seminar to cater the needs of students.

Salient Feature of Seminar:

- To design project proposals.
- To implement proper research methodologies.
- To provide hands on training of reference manage software. (Participants are advised to bring Laptops for training)
- To familiarize with effective poster presentation and publication in peer reviewed journals.
- To promote research collaborations
- To provide MoU opportunities.

Speakers Name :

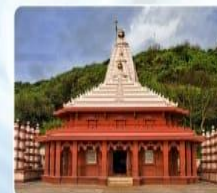
1. **Dr. Krishna Iyer,**
BOS Chairman, University of Mumbai.
Professor and Head, Dept of Pharmaceutical Chemistry,
Bombay College of Pharmacy, Mumbai.
2. **Dr. Supriya R. Hyam,**
Founder and Consultant,
Urjaya Wellness Research Center, Goa.
3. **Dr. Rahul Dandge,**
Assistant Professor,
RM CET, Ambav, Devrukh
4. **Mr. Amol B Khade,**
IQAC Coordinator,
Head Dept of Pharmaceutical Chemistry,
IIP, Sadavali.

Who can attend :

UG, PG, Research Scholars, industry persons and academicians of any discipline.

Welcome to Konkan

Sightseeing
Marleshwar (20 kms)
Ambaghat (35 kms)
Ratnagiri (45 kms)
Pawas Math (60 kms)
Ganapati Pule (60 kms)
Are-ware beach (60 kms)



Transportation

Bus station (3.5 kms)
Railway station
Sangameshwar road (18kms)
Ratnagiri (40 kms)
Kolhapur airport (100 km)
Mumbai airport (325 km)



Khude
Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



P. S. P. Sanstha's
Indra Institute
Of Pharmacy

A/P. Sadavali (Devrukh)
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Dist: Ratnagiri-415804
(Maharashtra)
Phone: 02354-241799
Fax: 02354-241499
E-Mail: info@iip.ind.in
Web: www.iip.ind.in
NAAC Accredited

Details of resource person

1. Dr. Krishna Iyer
 - Designation and organization: Professor of Pharmaceutical Chemistry, Bombay College of Pharmacy, Mumbai
 - Email id: krishna.iyer@bcp.edu.in
 - Contact No.: +91-9819222354
2. Dr. Supriya Hyam
 - Designation and organization: Founder, Urjayu Wellness, Goa
 - Email id: supriyahyam@gmail.com
 - Contact No.: +91-8408091337
3. Dr. Rahul Dandage
 - Designation and organization: Assistant Professor and HOD. Rajendra Mane college of Engineering and Technology, Ambav
 - Email id: r.dandage@rmcet.com
 - Contact No.: +91-9975171527




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Indra Institute of Pharmacy
Sadavali (Devrukh)



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Web: www.iip.ind.in
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IQAC, of IIP has successfully conducted guest lecture on "**Understanding CAS and API process for its faculty**", Dr. Sardar Patil, Asst. Professor and HOD of Geography, ASP College, Devrukh was invited as the resource person for guest lecture.



K. S. Patil
**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



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COLLABORATIVE QUALITY INITIATIVE WITH OPEX (MoU)

MEMORANDUM OF UNDERSTANDING
Between
OPEX ACCELERATOR PRIVATE LIMITED, KOLHAPUR
&
INDIRA INSTITUTE OF PHARMACY, SADAVALI-DEVURKH (Institute)

PRE-BOOKING AGREEMENT

This Agreement is made at INDIRA INSTITUTE OF PHARMACY, SADAVALI-DEVURKH on 14th Day of the June 2022 to avail a Pre-Booking Offer of 'CiREE-pro - A Skill Development and Hiring Online Platform for the Students with Annual Subscription.

Part I) ABOUT CIREE-PRO:

1. CiREE-pro is an enhanced version of CiREE (Skilling and Hiring Online Platform)
2. CiREE-pro offers Online Skill Development Courses through the Experts from various Pharmaceutical Industries. It provides Life Skills, Professional Skills, and Technical Skills to the Students along with other features like Job Portal, Resume Builder, Mock Tests and much more.
3. All the courses are designed like a syllabus for First Year to Final Year classes, which fit-in at Academic Year levels for Diploma, Degree and PG Pharmacy Courses in India.

Part II) PRE BOOKING OFFER:

- CiREE Pro is available for all the students of Pharmacy which is accessible at every year based on the Class of the Student.
- Annual Subscription comes with a Cost benefit of providing bulk courses and LIVE Webinar access in extremely affordable prices.
- Annual Subscription costs at 1699 INR per student per year
- This agreement facilitates the discounted Subscription fees of 899 INR per student per year instead of original price 1699 INR.
- Three offline programs including Campus Interview (One Day Program), Campus to Corporate (One Day Program), & StartUp Event (One Day Program) will be arranged by OPEX as a complimentary service to the Institute.

Part III) TERMS:

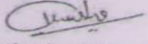

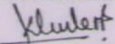

- Upon signing this agreement, Institute will enroll all their D. Pharm. & B. Pharm. Students of all classes with an exclusive pre-booking offer of 899 INR per student per year, effective from Academic Year 2022-2023.
- Institute will manage to collect the fees from students and shall pay to OPEX in two installments. Students will receive direct subscription to platform effective from 01st AUGUST 2022, class wise.

Part IV) SUBSCRIPTION:

- Pre-Booking amount of 25,000 INR (refundable) to be paid by the Institute at the time of signing MOU, as an advance amount to avail the discounted prices for the students.
- This amount will be refunded to the Institute when the actual enrollment starts in new academic year.
- **Payment Terms:**
 1. **Pre Booking Advance:** 25,000 INR as an Advance towards availing pre-booking offer, by signing this MOU.
 2. **First Installment:** (50% Amount of Total Billing of Institute - 25000 INR Advance): 01 August 2022
 3. **Second Installment:** Remaining 50% Amount of Total Billing of Institute: 01 September 2022

This is provisional MOU to register Pre Booking Offer. At the time of activation, new MOU will be signed mutually.

SIGNATURES:

<p>For OPEX ACCELERATOR P. LTD</p> <p></p> <p>Authorized Signature Name: Sachin Kumbhoje Designation: Founder & CEO Date: 14/06/2022</p> <p></p>	<p>For INDIRA INSTITUTE OF PHARMACY</p> <p></p> <p>Authorized Signature Name: Dr. Amol Khade Designation: I/c Principal Date: 14/06/2022</p> <p></p>
--	--




**Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)**



P. S. P. Sanstha's
Indra Institute
Of Pharmacy

A/P. Sadavali (Devrukh)
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(Maharashtra)
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Web: www.iip.ind.in
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COLLABORATIVE QUALITY INITIATIVES WITH OPEX (CiREE PRO – INDUCTION AND TRAINING)




K. S. S.
Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



**P. S. P. Sanstha's
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COLLABORATIVE QUALITY INITIATIVE WITH ADLER



Adler Healthcare Pvt. Ltd. ADLER
TECHNICAL AGREEMENT

This agreement is made on this 05th April, 2022 between M/s ADLER HEALTHCARE PVT.LTD. (Adler) having its plant at Plot No A-1, MIDC Sadavali, Tal Sangameshwar, Dist. Ratnagiri, 415804 which expression shall unless repugnant to the meaning or context thereof mean and include its associates, affiliates, legal representatives, officers, successors and permitted assigns of the - ONE PART and PSPS's Indra Institute of Pharmacy, Sadavali having its facility at Sadavali, Tal Sangameshwar, Dist. Ratnagiri, 415804 which expression shall unless repugnant to the meaning or context thereof mean and include its associates, affiliates, legal representatives, officers, successors and permitted assigns of the - OTHER PART.

WHEREAS

1. Adler is engaged in the business of manufacture and sale of Orthopaedic Implants, instrument and related devices (hereinafter referred to as "Products")
2. PSPS's Indra Institute of Pharmacy is an institution for teaching curriculum of Bachelor of Pharmacy and has established lab for various biological and related testing procedures. PSPS's Indra Institute of Pharmacy offers available services to industry under the scheme of the organization to develop industry interaction for enhancement and application of knowledge gained through various courses.
3. Adler wanted to develop and avail services at Indra Institute of Pharmacy using the domain knowledge of the college faculty and Adler's documentation.

NOW THEREFORE in consideration of mutual obligations, both the parties agree as follows:

1. Products & Processing:
 - a. Adler will define the service requirements to fulfill the requirements in the form of work order and share the requirements with PSPS's Indra Institute representatives through mails, personal meetings and wherever possible reference procedures and documents are shared.
 - b. PSPS's Indra Institute of Pharmacy will ensure carrying out work as per Adler requirements.
 - c. PSPS's Indra Institute of Pharmacy will make sure that there are no deviations to the requirements specified by Adler and in case if any need arises for changes required in the agreed requirements; changes will be made only after written approval from Adler's Authorised Representative.
2. Records:
 - a. PSPS's Indra Institute of Pharmacy shall keep conclusive records of all the Work carried out for Adler including the raw data and current good documentation practices will be followed always.
 - b. PSPS's Indra Institute of Pharmacy shall retain all the records pertaining to the work carried out for Adler for a period not less than 6 years. This will include the process records as well as the historic data of calibration and maintenance of the equipment involved in the procedures.
 - c. Adler shall have access to these records with due intimation to Indra Institute of Pharmacy.
3. Certificate of Testing:
 - a. After completion of work carried out for Adler; PSPS's Indra Institute of Pharmacy shall prepare a certificate which will contain necessary details as specified in the requirements or agreed format for the test report.
 - b. PSPS's Indra Institute of Pharmacy shall ensure correctness of the contents of the test certificates and other documentations As per requirement specification.
4. Return of Adler documents and property:
5. PSPS's Indra Institute of Pharmacy shall return products and documents received from Adler once the agreed services are fulfilled and completed along with the reports generated for the work carried out. -Storage:

(Formerly known as Biomaker Pvt. Ltd.) 1

Regd. Office.
Plot No. A-1, MIDC Sadavali, Tal. Sangameshwar, Dist. Ratnagiri, Maharashtra, IN. PIN 415804.
Ph. +91 8055136000, +91 8055146000. Email. Info@adler-healthcare.com




**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
Indira Institute
Of Pharmacy**

A/P. Sadavali (Devrukh)
Tal: Sangameshwar,
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(Maharashtra)
Phone: 02354-241799
Fax: 02354-241499
E-Mail: info@iip.ind.in
Web: www.iip.ind.in
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Adler Healthcare Pvt. Ltd.

- a. PSPS's Indira Institute of Pharmacy shall ensure that the samples received from Adler are stored in such a way that there is no possibility of any kind of microbial contamination or damage to the Samples.
 - b. PSPS's Indira Institute of Pharmacy shall provide appropriate storage arrangements to ensure segregation of the material and documents received from Adler to ensure inadvertent use and unauthorized copying of the documents.
6. Loading, unloading, transportation:
- a. PSPS's Indira Institute of Pharmacy shall exercise maximum care while handling of the samples in order to avoid damage / contamination of the products during transportation and handling.
 - b. In case of damage or contamination of the samples Indira institute of Pharmacy shall segregate the samples and intimate Adler immediately.
 - c. PSPS's Indira Institute of Pharmacy will ensure aseptic handling of samples wherever necessary and ensure handling of any sample by trained personnel only.
7. Legal Compliances:
- a. PSPS's Indira Institute of Pharmacy and Adler endeavor to update and help each other for compliance to the legal requirements especially related to the latest provisions of Drugs and Cosmetics Act 1940 (Rules 1945).
 - b. Both the parties agree to keep communicated to each other for legal requirements and amendments (if any) requiring any change in the agreed process parameters / conditions of this agreement and agree to implement necessary changes as required.
8. Validity / Termination of Agreement:
- a. Unless otherwise earlier terminated as herein provided, this agreement shall be in force for five (5) years, commencing from the date of signing of this agreement.
 - b. The agreement shall be extended automatically for another year unless one of the parties cancels it by ninety (90) day's prior written notice.

For Adler Healthcare Pvt. Ltd.

Signature:

Date: 05APR2022

Name: Satyawan Jadhav

Designation: Manager – Quality

Company Seal:



For PSPS's Indira Institute of Pharmacy

Signature:

Date: 05APR2022

Name: Dr. Amol Khade

Designation: Principal



Regd. Office.

(Formerly known as Biomaker Pvt. Ltd.)

2

Plot No. A-1, MIDCSadavali, Tal. Sangameshwar, Dist. Ratnagiri, Maharashtra, IN. PIN 415804.
Ph. +91 8055136000, +91 8055146000. Email. Info@adler-healthcare.com




**Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
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**COLLABORATIVE QUALITY INITIATIVE WITH ADLER
(TRAINING AND AWARENESS PROGRAM RELATED TO FUMIGATION ACTIVITY)**

Fwd: Invitation for the Fumigation training as a Trainer 



Dr. Nagare SUJIT

to me ▾

10:28 AM (3 minutes ago) ☆ ↶ ⋮

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

From: **Rane, Dhaval** <Dhaval.Rane@smith-nephew.com>

Date: Fri, 16 Nov, 2018, 16:28

Subject: Invitation for the Fumigation training as a Trainer

To: NAGARE SUJIT <nagaresk@gmail.com>

Dear Sir,

You are co-ordinary invited to our Facility for giving the training on **Fumigation** to our staff members.

Kindly be present at Adler Mediequip Pvt Ltd, at 14.30 on 17 Novr 2018.

Dhaval Rane | QA Engineer | Adler Mediequip Pvt. Ltd. | India |

Plot No. A-1, MIDC Sadavali, Tal. Sangameshwar, Dist. Ratnagiri, PIN-415804

Dhaval.Rane@smith-nephew.com

D +91 (0) 2354 260179; 260817

M +91 (0) 91 9096213906

www.adlermediequip.com




**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
Indira Institute
Of Pharmacy**

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**COLLABORATIVE QUALITY INITIATIVE WITH ADLER
(TRAINING AND AWARENESS PROGRAM RELATED TO FUMIGATION ACTIVITY)**

Fwd: Training & Awareness programme related to Fumigation activity

Inbox x



Dr. Nagare SUJIT

to me

10:27 AM (0 minutes ago)



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

From: <mangesh.prabhudesai@adler-healthcare.com>

Date: Sat, 11 Jun, 2022, 11:03

Subject: Training & Awareness programme related to Fumigation activity

To: NAGARE SUJIT <nagaresk@gmail.com>

Cc: <satyawan.jadhav@adler-healthcare.com>, <hr@adler-healthcare.com>, <milind.more@adler-healthcare.com>

Dear Sir,

This is as discussed few days back.

You are offering us cleanroom fumigation as well as bio-burden testing service for quite a few years. It has helped us quite a lot, especially in the day by day growing needs of FDA regulations. We are thankful to you & your institute for the same & we also intend to continue this services in future.

While we are maintaining the facility as per the FDA requirements, knowledge of the people handling the operations of the clean room is very important. We intend to conduct a training session for the staff members with the help of your institute, which is intended to upgrade knowledge of our people regarding the micro-organism & other related topics.

We request you to pls. accept our request as a resource person for this training session & cover all the necessary topics. One of the area which we want you to cover is to explain the Test report that you submit after every fumigation cycle.

We can mutually agree upon the date & time of this session as per your convenience.

With Best Regards,



Adler Healthcare Pvt.Ltd.

Mangesh Prabhudesai | General Manager – Operations & Business Development |



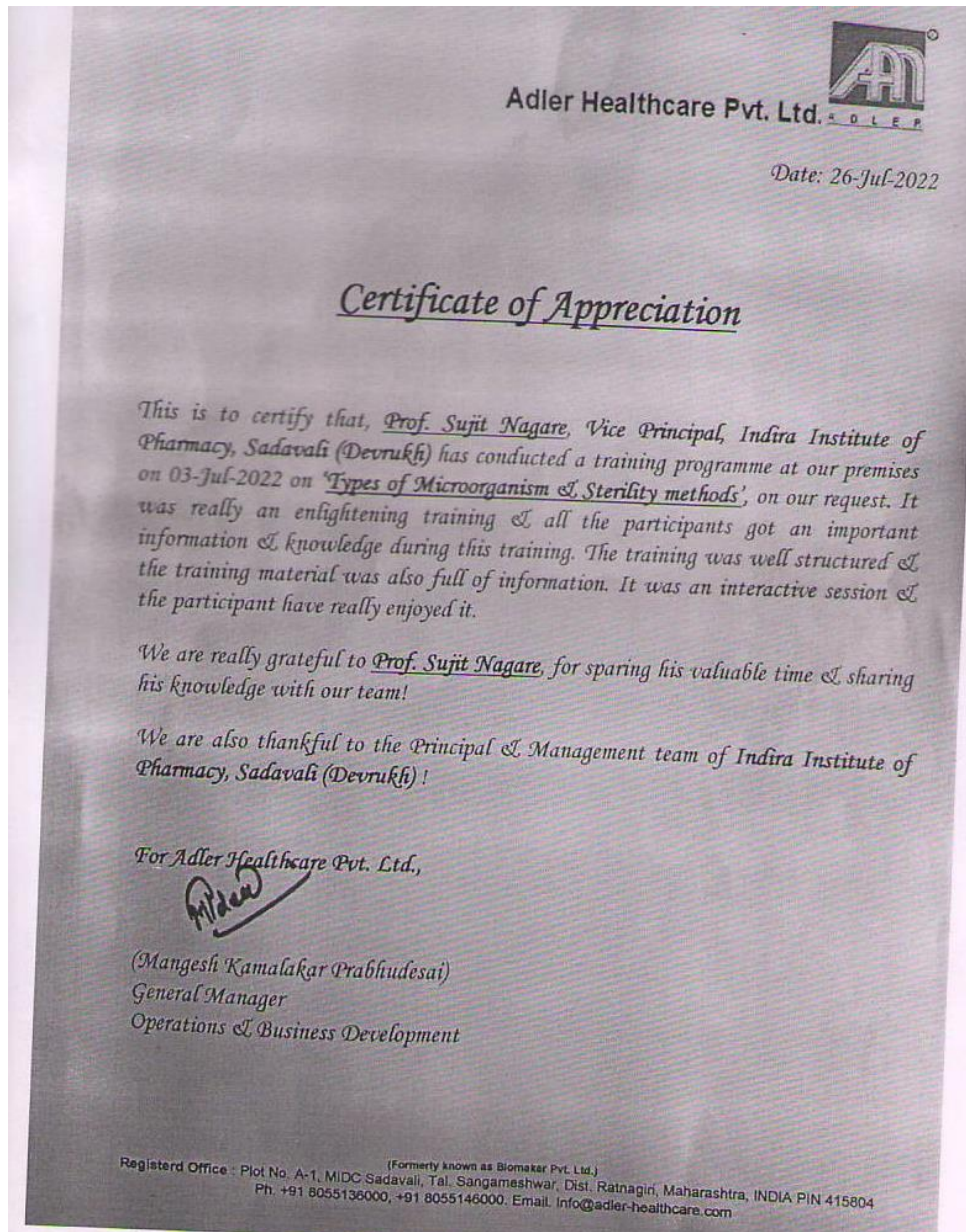

Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



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COLLABORATIVE QUALITY INITIATIVE WITH ADLER
(TRAINING PROGRAMME ON TYPES OF MICROORGANISM & STERILITY METHODS)




Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



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**COLLABORATIVE QUALITY INITIATIVE WITH ADLER
(TRAINING PROGRAMME ON TYPES OF MICROORGANISM & STERILITY METHODS)**





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**COLLABORATIVE QUALITY INITIATIVE WITH ADLER
(TRAINING ASSISTANCE TO PREPARE SOP FOR HANDLING & DISPOSAL OF CHEMICALS)**

 Gmail

Fwd: Assistance to prepare SOP for handling storage & disposal of chemicals

Dr. Amol B Khade <abkhade@gmail.com>
To: Vipul Sansare <avipulsansare@gmail.com>

Thu, Nov 10, 2022 at 1:23 PM

Dr. Amol B. Khade, M.Pharm, Ph.D.
Principal (In-charge)
P.S.P.Sanstha's Indra Institute of Pharmacy, Sadavali
Devrukh, Ratnagiri, Maharashtra.
Mobile No. 9482073520/9881675337
Email: info@iip.ind.in
URL: <http://www.iip.ind.in>
ORCID Research Profile

----- Forwarded message -----
From: Prabhudesal, Mangesh <Mangesh.Prabhudesal@smith-nephew.com>
Date: Wed, Jan 27, 2021 at 12:44 PM
Subject: Assistance to prepare SOP for handling storage & disposal of chemicals
To: info@iip.ind.in <info@iip.ind.in>
Cc: abkhade@gmail.com <abkhade@gmail.com>, KPS, Kishnan <Kishnan.KPS@smith-nephew.com>

To,
The Principal,
Indra Institute of Pharmacy,
Sadavali.

Dear Sir,

We at Adler Mediequip Pvt. Ltd. MIDC, Sadavali, intend to establish process of Titanium Anodizing. As per requirements, we are using below acids.

Considering the possibility of hazards during the handling of these acids, we request you to provide your expert advice / assistance to prepare SOP for Handling / Storage & Disposals as well as preparing guidelines in case of accidents etc.

Although we have the standard MSDS data available, we intend to correctly interpret & articulate the instructions with your faculty expertise, which will make it easier to understand & follow on the floor.

Request your co-operation as usual.

Please refer the below details of chemicals and ratio of mixing.

3.1.1. Anodizing Surface preparation Tank


1. Take Hydrofluoric acid and Nitric Acid, prepare solution 15ml HF and 4l NI Acid

15ml HF for 4 L Nitric

3.1.3. Anodizing Bath Tank

1. Take chemical Ammonium Sulfate and prepare solution 280 Liter Water with 12 kg Ammonium Sulfate (500gm pack mix with 11.9-liter water (1:0428 ratio)).

Thanks & regards,

 **SmithNephew**

Mangesh Prabhudesal | Head-Unit Operations
mangesh.prabhudesal@smith-nephew.com
Pl. A-1 MIDC Sadavali, Tal- Sangameshwar
Dist - Ratnagiri - Maharashtra - INDIA
PIN 415804
Mobile: +919422431425





**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
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**COLLABORATIVE QUALITY INITIATIVE WITH ADLER
(TRAINING ASSISTANCE TO PREPARE SOP FOR HANDLING & DISPOSAL OF CHEMICALS)**

 vipul sansare <avipulsansare@gmail.com>

Fwd: External: - Re: Adler Mediequip_Chemical

Dr. Amol B Khade <abkhade@gmail.com>
To: Vipul Sansare <avipulsansare@gmail.com>

Thu, Nov 10, 2022 at 1:24 PM

Dr. Amol B. Khade, M.Pharm, Ph.D.
Principal (In-charge)
P.S.P.Sanstha's Indra Institute of Pharmacy, Sadavali
Devrukh, Ratnagiri, Maharashtra.
Mobile No. 9482073920/9881675337
Email: info@iip.ind.in
URL: <http://www.iip.ind.in>
ORCID Research Profile


----- Forwarded message -----
From: Prabhudesal, Mangesh <Mangesh.Prabhudesal@smith-nephew.com>
Date: Wed, Jan 27, 2021 at 12:44 PM
Subject: RE: External: - Re: Adler Mediequip_Chemical
To: Dr. Amol B Khade <abkhade@gmail.com>
Cc: KPS, Krishnan <Krishnan.KPS@smith-nephew.com>

Dear Dr. Amol,

Thanks for valuable inputs. These are very important inputs that can be used to prepare our SOP for handling / storage & disposal of the acids.
I have already written a request mail to the Principal, copy to you. Sorry for being late in this regard.

We once again appreciate your support & helping us to make a safe work environment in our industry.

Regards,
Mangesh Prabhudesal

Adler - India, a  company
+919422431425




**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
Indra Institute
Of Pharmacy**

A/P. Sadavali (Devrukh)
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Dist: Ratnagiri-415804
(Maharashtra)
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Web: www.iip.ind.in
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COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH (MoU)

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as the "MOU") is made and executed on this 6th day of March, 2017 at Devrukh.

BETWEEN

Devrukh Shikshan Prasarak Mandal's Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce and Dadasaheb Pitre Science College, Devrukh, a college recognized under Section 2(f) and 12 (B) of the UGC Act 1956 and having address at: At Post Devrukh, Tal. Sangmeshwar, Dist. Ratnagiri, Pin 415 804

Through its- Principal

(Hereinafter referred to as "ASPCD")

AND

Prabodhan Shikshan Prasarak Sanstha's Indra Institute of Pharmacy a residential Institute approved by All India Council for Technical Education, PCI New Delhi and having address at: At Post Sadavali, Tal. Sangmeshwar, Dist. Ratnagiri, Pin 415 804

Through its- Principal

(Hereinafter referred to as "IIPS")




**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
Indra Institute
Of Pharmacy**

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COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH (MoU)

WHEREAS:

- A. ASPCD, Established in 1972 by Devrukh Shikshan Prasarak Mandal, Devrukh, Tal Sangmeshwar, is affiliated to Mumbai University, recipient of 'Mumbai University Best College Award' for the year 2009-10, and has obtained 'A' grade in the third cycle of National Assessment and Accreditation Council (NAAC) evaluation conducted in March 2016.
- B. IIPS, Established in 2008 by Prabodhan Shikshan Prasarak Sanstha, Ambav, Tal Sangmeshwar, is affiliated to Mumbai University and have obtained 'B' grade in the first cycle of National Assessment and Accreditation Council (NAAC) evaluation conducted in Oct. 2017.
- C. ASPCD and IIPS desires to work in collaboration with each other for scientific research and educational activities on terms and conditions set out below.

NOW THIS AGREEMENT WITNESSETH AND IT IS AGREED BY AND BETWEEN THE PARTIES AS UNDER:

1. Purpose:

The goal of this cooperation is to foster collaboration and to facilitate advancement of knowledge on the basis of reciprocity, best efforts, mutual benefits and frequent interactions. ASPCD and IIPS agree to explore the possibility of engaging in the following modes of collaboration:

- 1) ASPCD and IIPS agree to investigate ways of identifying and inviting faculty members from both the institutions.




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COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH (MoU)

- 2) Conduction of extensive research in the field of Pharmacognosy, Medicinal Botany, Ethno Botany, Pharmacology, Pharmaceutics etc.
- 3) Exchange of information on research, teaching, learning materials and other literature relevant to their educational and research programmes.
- 4) **ASPCD** and **IIPS** agree to jointly identify and pursue opportunities for formulation and submission of new research project proposals and or training programmes from funding agencies. The terms and conditions of such joint research project would be worked out between the concerned investigator and the funding agency.
- 5) Joint proposal or engagement in research or training programmes sponsored by funding agencies extending invitations to each other's faculty to participate therein.
- 6) Organization of seminars, conferences, workshops and short-term continuing education programmes on topics of mutual interests, while extending invitations to each other's faculty to participate therein.
- 7) Exchange on a reciprocal basis of students at graduate level for limited period of time for purposes of education and/or research.
- 8) Exchange of faculty from **ASPCD** and **IIPS** for purpose of guest lectures and/or as a resource person.
- 9) **ASPCD** and **IIPS** agree to respect each other's right to intellectual property. All background intellectual property used in connection with this MOU shall remain the property of the party that introduces it. No license is granted to any party to use another party's background intellectual property unless specifically agreed to in writing. Further, the intellectual property rights that arises as a result of any collaborative research or joint activity under this MOU would be subject to separate written agreement(s) on the ownership and management of such intellectual property and each party agrees to respect the ownership of intellectual property of the other




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COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH (MoU)

parties in all dealings, consistent with officially laid down intellectual property rights policies of the partner institution.

- 10) Provision of consultancy on the campus development of both ASPCD and IIPS.
- 11) No party of this memorandum shall use the name, logo or any other designation of any of the other parties without prior written consent.
- 12) The terms of any financial management will be subject to separate agreement(s) made on a case-by-case basis; such further agreements will include the names of those persons responsible for managing the implementation etc. of collaborative activity.

2. Term of the Agreement:

The term of this MOU is for 5 (Five) years commencing from the date it is signed by representative of the two institutions. The parties may decide to further extend the term of this MOU by mutual consent on terms and conditions as may be agreed between them.

3. Further Agreements:

This MOU will be reviewed after three years; the terms of this MOU may be amended by mutual written agreement prior to the date of review. Any extension to this MOU will be formally agreed in writing by the parties.

4. Amendment/Termination of MOU

- i. Any amendment to the terms of this agreement can only be made by mutual consent of the parties.




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COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH (MoU)

- ii. Either institution may terminate the MOU by giving written notice to the other institution six months in advance. Once terminated, neither ASPCD nor IIPS will be responsible for any losses, financial or otherwise, which the other institution may suffer. However ASPCD and IIPS will ensure that all activities in progress are allowed to complete successfully.

5. Confidentiality:

- i. The Parties agree to maintain strict secrecy and confidentiality regarding any and all Confidential Information exchanged or to be exchanged between them in relation to this Agreement.
- ii. Information and material disclosed and provided by each party to the other party in pursuance of or in connection with performance of its obligation under this agreement shall at all times remain the sole and exclusive property of the disclosing Party.

6. Applicable Law and Dispute Settlement:

- i. This agreement shall be governed by the Laws of India.
- ii. Any dispute arising between the parties in connection with or arising out of the performance of mutual obligations under this MOU shall be resolved in a spirit of independence, mutual respects and shared responsibility by mutual discussion, consultation. If the dispute remained unresolved even after 30 days, then the dispute shall be referred to Dr Narendra Tendolkar, Principal of ASPCD and




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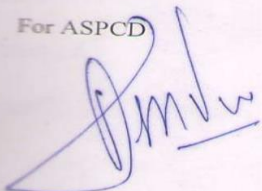

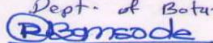

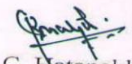

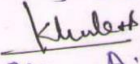

COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH (MoU)

Dr. B. C. Hatapakki, Principal of IIPS. The decision of Dr. Narendra Tendolkar and Dr. B. C. Hatapakki shall be final and binding on both parties.

7. Originals:

This Agreement is executed in counterparts, each of which shall be deemed to be original and retained by each of the Parties but together they shall constitute one and the same agreement.

IN WITNESS WHEREOF, the Parties hereto have put their hands the day, month and the year first hereinabove mentioned.

<p>For ASPCD</p>  <p>Name: Dr Narendra P. Tendolkar PRINCIPAL Designation: Principal Vidya Veda, V. S. Sapre Commerce & Vidhyaya Pitre Science College, Devrukh (Dist. Ratnagiri)</p> <p>Witness 1  Full Name- Dr. Pradap V. Naikwade Designation: Head and Asst. Professor Dept. of Botany</p> <p>Witness 2  Full Name- Dr. Ramjit P. Bamsode Assistant Professor Dept. of Botany.</p> 	<p>For IIPS</p>  <p>Name: Dr. B. C. Hatapakki Principal Designation: Principal Indra Institute of Pharmacy, Sadavali (Devrukh)</p> <p>Witness 1  Full Name: Mr. Nagare S. Ic Asst. Prof. Indra Institute of Pharmacy Sadavali</p> <p>Witness 2  Full Name: Mr. A. B. Ichale Asst. Prof. Indra Instit of Pharmacy Sadavali</p> 
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Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



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**COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH
(COLLABORATIVE RESEARCH ACTIVITY)**

Synthesis, Characterization and Biological Evaluation of Indole-Pyrazole Amalgamated α -Cyano Substituted Chalcones

Pravin S Bhale ¹, Sadanand N Shringare ², Amol B Khade ³, Hemant V Chavan ⁴

Affiliations – collapse

Affiliations

- 1 Department of Chemistry, Yeshwantrao Chavan Mahavidyalaya, Tuljapur, Dist-Osmanabad-413 601, Maharashtra, India.
- 2 School of Chemical Sciences, Solapur University Solapur-413 255, Maharashtra, India.
- 3 Department of Quality Assurance, Indra Institute of Pharmacy, Devrukh, Dist-Ratnagiri-415 804, Maharashtra, India.
- 4 Department of Chemistry, A.S.P. College, Devrukh, Dist-Ratnagiri- 415 804, Maharashtra, India.

PMID: 33563183 DOI: [10.2174/1871520621666210201095030](https://doi.org/10.2174/1871520621666210201095030)

Abstract

Background: Indole and pyrazole constitute a major class of biologically active scaffolds. The amalgamation of two or more pharmacophores would generate novel molecular templates that are likely to unveil remarkable biological properties.

Objective: An efficient and high yielding synthesis of indole-pyrazole integrated α -cyano substituted




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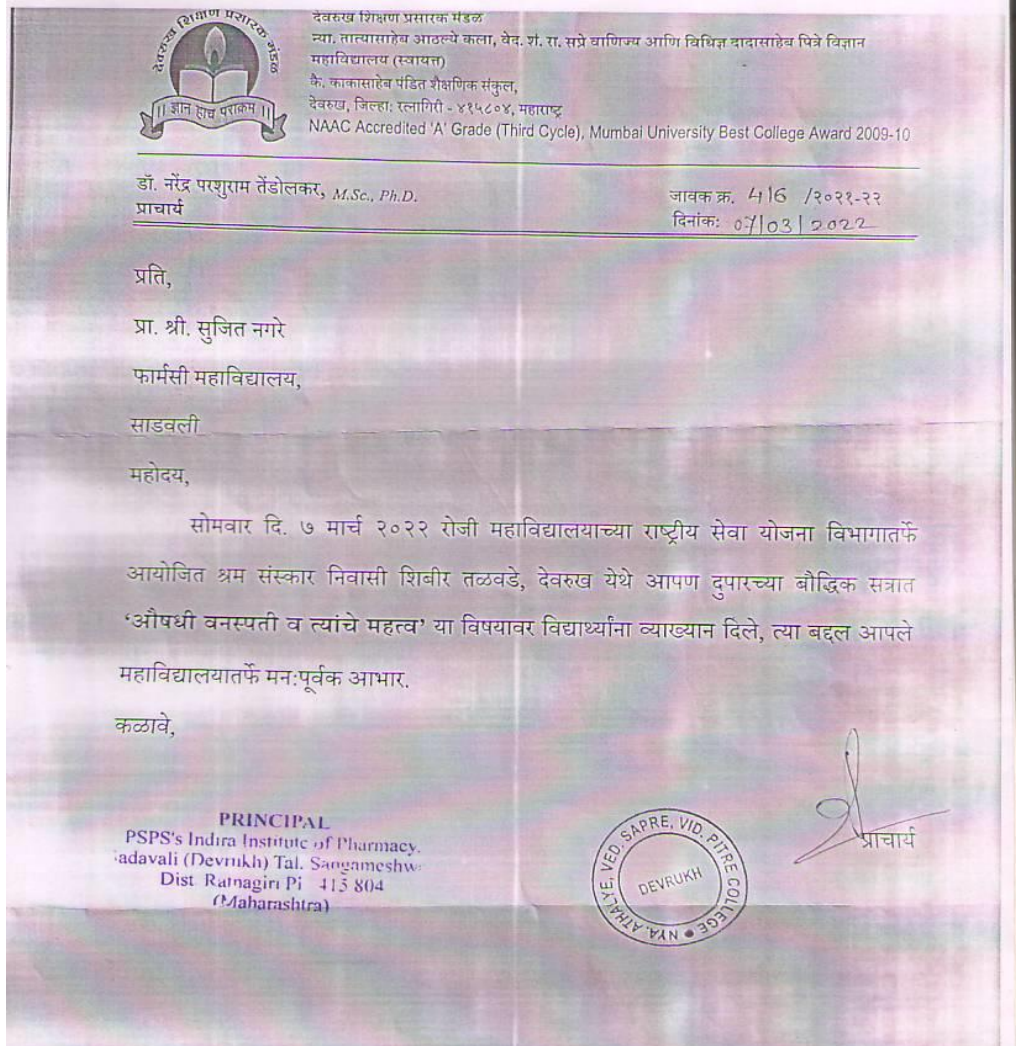
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**COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH
(SEMINAR ON "MEDICINAL PLANTS AND THEIR BENIFITS")**



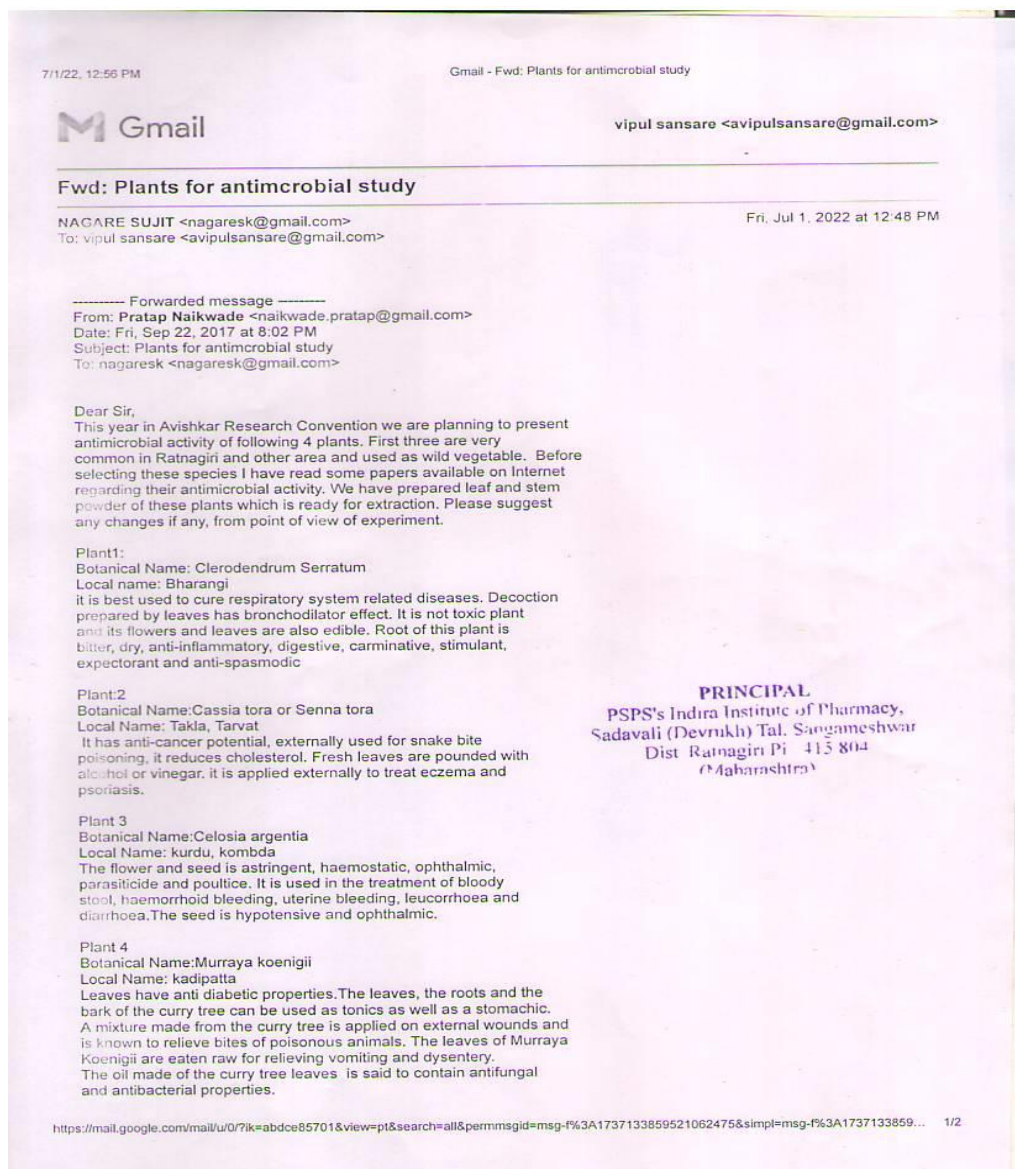

**Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)**



**P. S. P. Sanstha's
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**COLLABORATIVE QUALITY INITIATIVE WITH ASPCD COLLEGE, DEVRUKH
(COLLABORATIVE RESEARCH ACTIVITY ON PLANTS FOR ANTIMICROBIAL STUDY)**





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Indra Institute of Pharmacy
Sadavali (Devrukh)**



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COLLABORATIVE QUALITY INITIATIVE WITH MAHALAXMI E- RECYCLERS Pvt. Ltd. PUNE
(MoU)




Date: 05/04/2021


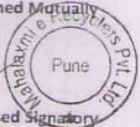
Memorandum of Understanding for E waste disposal

This is a Memorandum of mutual understanding between **Mahalaxmi e Recyclers Pvt.Ltd. Pune**, hereafter termed as ewaste dismantler and **Indira Institute of Pharmacy, Sadavali, Devrukh** hereafter termed as client, made with an intention of environment friendly disposal of e waste collected by the client and to be disposed by the dismantler with following terms:

1. The client will inform the dismantler through mail or phone about such collection of e waste at their office and the dismantler will collect it from the said location after properly testing the same at mutually contracted rates.
2. The payment of the collected e waste will be made by the dismantler against delivery.
3. Once disposed to the dismantler, the client will not have right on any of the material disposed.
4. The dismantler will issue FORM6 of such disposal to the client for every delivery made by the client, in prescribed format and enter the same in the passbook issued by M.P.C.B.
5. All the legal issues will be dealt in the legal jurisdiction of Pune District.

Agreed & Signed Mutually

 Signed by: Amol Baban Khade
Reason: MOU - Memorandum of Understanding
Location: Ratnagiri, India
Date: 07-Apr-2022 (12:00 PM)
Principal
Indira Institute of Pharmacy, Sadavali, Devrukh

 
Authorized Signatory
For, Mahalaxmi e Recyclers Pvt. Ltd. Pune

Mahalaxmi e Recyclers Pvt. Ltd.
Plot No 77&78, Subplot No 3A, Ramtekadi Industrial Area, Hadapsar,
Pune- 411013
Mobile: +91-72764 11826
Email : manoj@erecyclebin.com | www.erecyclebin.com

MPCB REGN. NO. : MPCB/RO(HQ)/HSMD/20/EW-08/Date-11thNov. 2020, Valid till 31st Oct. 2025
GST NO. 27AAICM758SMIZL




Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



P. S. P. Sanstha's
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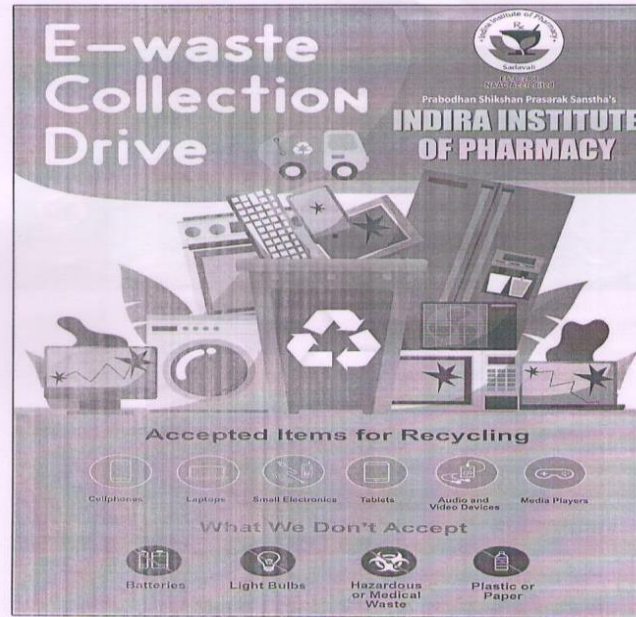
Fax: 02354-241499

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Web: www.iip.ind.in

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COLLABORATIVE QUALITY INITIATIVE WITH MAHALAXMI E- RECYCLERS Pvt. Ltd. PUNE
(COLLABORATIVE ACTIVITY - E-WASTE COLLECTION DRIVE)



K. S. Kulkarni
Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



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COLLABORATIVE QUALITY INITIATIVE WITH INGENIOUS HEALTHCARE
(MoU)

MEMORANDUM OF UNDERSTANDING
between
Indra Institute Of Pharmacy Sadavali, Devrukh.
&
Ingenious Healthcare,
Hadapsar, Pune, Maharashtra

This agreement is executed on this date between **Ingenious Healthcare, Hadapsar, Pune** (Henceforth mentioned as company) and **Indra institute of pharmacy sadavali, Devrukh** (Henceforth mentioned as Institute).

This agreement is made by and between **Ingenious Healthcare, Hadapsar, Pune** and **Indra institute of pharmacy sadavali, Devrukh**.

1/4

www.ingenious.com | Opp to SP infocity (IBM), Behind Reddy Hotel, Pune-Saswad Road, Hadapsar- 412308



K. S. P. Sanstha
Principal
Indra Institute of Pharmacy
Sadavali (Devrukh)



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COLLABORATIVE QUALITY INITIATIVE WITH INGENIOUS HEALTHCARE
(MoU)

Recitals

- Whereas, Ingenious Healthcare Hadapsar, Pune is a Site management organization and clinical research institute, engaged in manufacturing of quality pharmaceuticals for the benefit of the society.
- Whereas **Indira institute of pharmacy sadavali, Devrukh**, is a premier pharmacy Institute conducting degree course in Pharmacy.

Scope of MOU:

- To improve knowledge & skill base of students by exposing them with practical aspects of their professional career.
- To utilize technical manpower & thereby improve the quality of education-knowledge & skills in the students.

Aims and objectives of MoU:

- Opportunity for students & faculty to undergo industrial training.
- Opportunity for students & faculty to undergo industrial projects.
- Opportunity for students & faculty to visit industry & observe quality in services.
- To avail human resources as guest lecturers from the industry.
- Opportunity for training & placement of student in industry.
- Both the company & the institution shall evolve a mutually acceptable schedule to develop programs, hold seminars and exchange visits.
- Collaborations in the sharing of academic data, scientific information, intellectual property, articles and publications.




Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



**P. S. P. Sanstha's
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**COLLABORATIVE QUALITY INITIATIVE WITH INGENIOUS HEALTHCARE
(MoU)**

Liability:

- No party is liable for any claim of personal loss arising out of any such activity/accident during the course of execution of the work covered under this MOU.
- The parties to this MOU undertake to treat as CONFIDENTIAL AND PRIVILEGED information of each other/ Company & institution, which is so classified in advance. The terms of confidentiality and mode of disclosure shall be as per mutually acceptable terms.

Termination:

Company and Institute can terminate this agreement under the following circumstances:

- Both the parties do not adhere to responsibilities of mutual participation.
- Both the parties contravene any of the provision of this agreement.
- Both the parties can terminate the agreement after giving a prior notice.

Duration of MOU:

The duration of MOU shall be for a period of five year from the date of signing

Seal of the parties:

In witness were of the parties here to sign this agreement on the day, month & year mentioned here in before.

Director



Ingenious Healthcare.

Place:, Pune
Date: 29/07/2021

Dr. A. B. Khade
I/C PRINCIPAL
Indira Institute of Pharmacy
Sadavali (Devrukh)



Principal
Indira Institute of Pharmacy
Sadavali (Devrukh)



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**COLLABORATIVE QUALITY INITIATIVE WITH JAIPUR NATIONAL UNIVERSITY, JAIPUR
(MoU)**

**MEMORANDUM OF UNDERSTANDING (MOU)
BETWEEN
JAIPUR NATIONAL UNIVERSITY, JAIPUR
AND
INDIRA INSTITUTE OF PHARMACY, SADAVALI (DEVROUKH)**

This MOU is entered on the Saturday of 08/06/2019 by and between Jaipur National University, Jaipur (herein after called as JNU) situated at Jagatpura, Jaipur Rajasthan, the University established by State under section (2f) of the Act of UGC.

and

Indira Institute of Pharmacy, Sadavali, Devrukh (herein after called as IIP)
Tal: Sangameshwar, Dist: Ratnagiri, Maharashtra, 415804. Affiliated to University of Mumbai, Approved by AICTE, PCI, New Delhi, Recognized by DTE, Govt. of Maharashtra.

The aforesaid Institutions are hereinafter referred as JNU and IIP

1. Objectives of the MOU

- i. To promote and enhance academic interest between JNU and IIP.
- ii. To exchange the faculty and/or staff between both Institutes/Universities.
- iii. To conduct joint research activities including joint research publications.
- iv. To participate in seminars and other related academic meetings/activities.
- v. To exchange research students including UG/PG student, between both.
- vi. To exchange academic and research materials.

2. Technical Areas of Collaboration:

- i. A continuing Quality Improvement Programme of Research in the field of mutual interest between both parties.
- ii. Provide special academic interactive lectures by faculty of both Institutions.
- iii. Provide necessary help and guidance in organization of Workshops/ Conferences/ Personality Development Programme for enhancement of skills of students and faculties of both Institutions.
- iv. Provide necessary support for lectures through video conferences, satellite links and assistance in development of E-classes, establishment of research labs, training and placements at both Institutes.
- v. Joint conduct and supervision of research students including UG/PG students at either Institutes.
- vi. Facilitate training for teachers and students.




Principal
Indira Institute of Pharmacy
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**COLLABORATIVE QUALITY INITIATIVE WITH JAIPUR NATIONAL UNIVERSITY, JAIPUR
(MoU)**

3. Terms and Conditions

- i. The cost of development of infrastructure will be borne by the respective Institute where the development is being carried out.
- ii. Faculty members and students of both Institutes can use library facilities of each other's.
- iii. This MOU may be mutually amended, renewed and terminated by mutual agreement between both Institutes.

4. Confidentiality

Both Institutes agree to keep and maintain confidentiality which is created during the collection of data and the research and will not disclose the same to the third party without written consent of the other Institute.

5. Duration of MOU

This MOU unless extended by mutual written consent of both the Institutes, shall be in force initially for five years from the day of execution.

6. Coordinators

Both Institutes will designate the names of Coordinators responsible for execution of this MOU.

7. Intellectual Property Rights

The Intellectual Property Rights (IPR) that arise as a result of joint research and collaboration activity under this agreement will be worked out on a case to case basis as mutually agreed upon.

8. Signed in Duplicate

This MOU is executed in duplicate with each copy being an official version and having equal legal validity. By signing below, the Institutes, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as the day and year first above written.


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Jaipur National University, Jaipur


on behalf of

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**COLLABORATIVE QUALITY INITIATIVE WITH JAIPUR NATIONAL UNIVERSITY, JAIPUR
(COLLABORATIVE INITIATIVE – BOOK TITLED ‘NOVEL DRUG DELIVERY SYSTEM’)**

Vipul A. Sansare : has Bachelor's degree (B.Pharm) from Indira Institute of Pharmacy, Sadavali; Master's degree (M.Pharm) in Pharmaceutics from Bombay College of Pharmacy, Mumbai. His area of specialization is Novel Drug Delivery Systems. Currently he is associated with Indira Institute of Pharmacy, Sadavali as an assistant professor of Pharmaceutics. He has 3 years of experience in teaching. He has authored 10 research papers in reputed national international journals, published 3 textbooks and presented 5 papers in international conferences. He has received two prestigious awards in international conferences for his papers. He has guided many undergraduate projects and scientific posters. He is member of MSPC, APTI, CRS-IC, SPER, The international Nanoscience Community, International Society for Lyophilization/Freeze Drying (ISL-FD) and Institute of scholar.

Dr. Manish Kumar Gupta : has been awarded Bachelor's degree (B.Pharm) from B.N. College of Pharmacy, Udaipur; Master's degree (M.Pharm) in Pharmaceutics from Birla Institute of Technology, Mesra, Ranchi and Ph.D. in Pharmaceutical Sciences from Jaipur National University, Jaipur. His specialization is in the field of Novel Drug Delivery Systems. Currently he is associated with School of Pharmaceutical Sciences, Jaipur National University, Jaipur as Professor (Pharmaceutics) and Coordinator to coordinating various important activities. He has several research papers published in Journals of repute and presented at national / international conferences. During his over 18 years of professional experience, including 15 years teaching and 3 years industrial experience, he has guided 10 postgraduate students. Presently, 6 students are pursuing Ph.D. under his guidance. He is member of various professional bodies, social groups and organizations. His expertise in the field of Pharmaceutical Sciences including automation using software systems has significant recognition and is also appreciated greatly by his colleagues and students.

Novel Drug Delivery Systems

Sub. Code : BP-704T
PCI Syllabus

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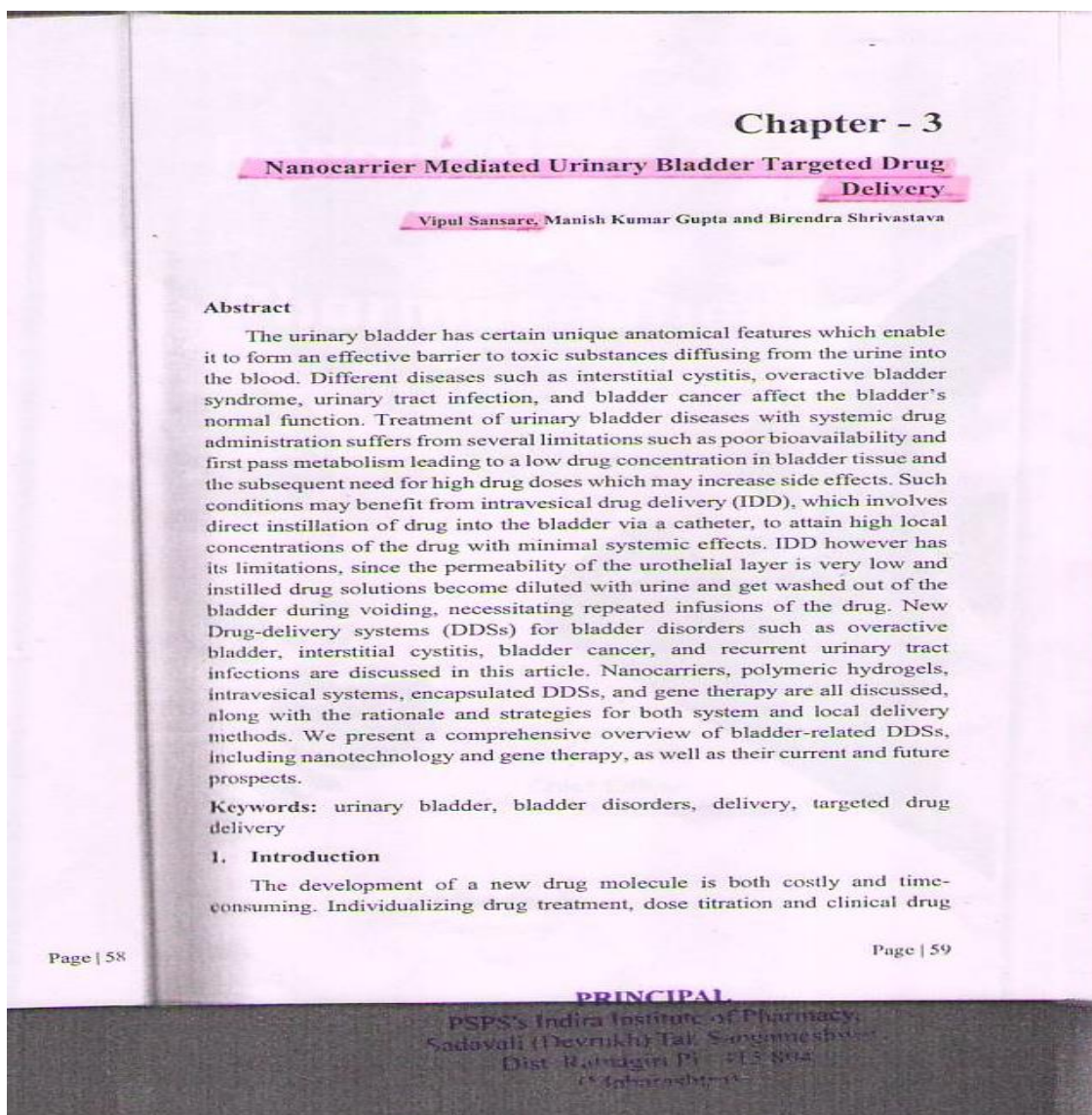
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(COLLABORATIVE INITIATIVE – BOOK CHAPTER ON
“NANOCARRIER MEDIATED URINARY BLADDER TARGETED DRUG DELIVERY”)**



Chapter - 3

Nanocarrier Mediated Urinary Bladder Targeted Drug Delivery

Vipul Sansare, Manish Kumar Gupta and Birendra Shrivastava

Abstract

The urinary bladder has certain unique anatomical features which enable it to form an effective barrier to toxic substances diffusing from the urine into the blood. Different diseases such as interstitial cystitis, overactive bladder syndrome, urinary tract infection, and bladder cancer affect the bladder's normal function. Treatment of urinary bladder diseases with systemic drug administration suffers from several limitations such as poor bioavailability and first pass metabolism leading to a low drug concentration in bladder tissue and the subsequent need for high drug doses which may increase side effects. Such conditions may benefit from intravesical drug delivery (IDD), which involves direct instillation of drug into the bladder via a catheter, to attain high local concentrations of the drug with minimal systemic effects. IDD however has its limitations, since the permeability of the urothelial layer is very low and instilled drug solutions become diluted with urine and get washed out of the bladder during voiding, necessitating repeated infusions of the drug. New Drug-delivery systems (DDSs) for bladder disorders such as overactive bladder, interstitial cystitis, bladder cancer, and recurrent urinary tract infections are discussed in this article. Nanocarriers, polymeric hydrogels, intravesical systems, encapsulated DDSs, and gene therapy are all discussed, along with the rationale and strategies for both system and local delivery methods. We present a comprehensive overview of bladder-related DDSs, including nanotechnology and gene therapy, as well as their current and future prospects.

Keywords: urinary bladder, bladder disorders, delivery, targeted drug delivery

1. Introduction

The development of a new drug molecule is both costly and time-consuming. Individualizing drug treatment, dose titration and clinical drug

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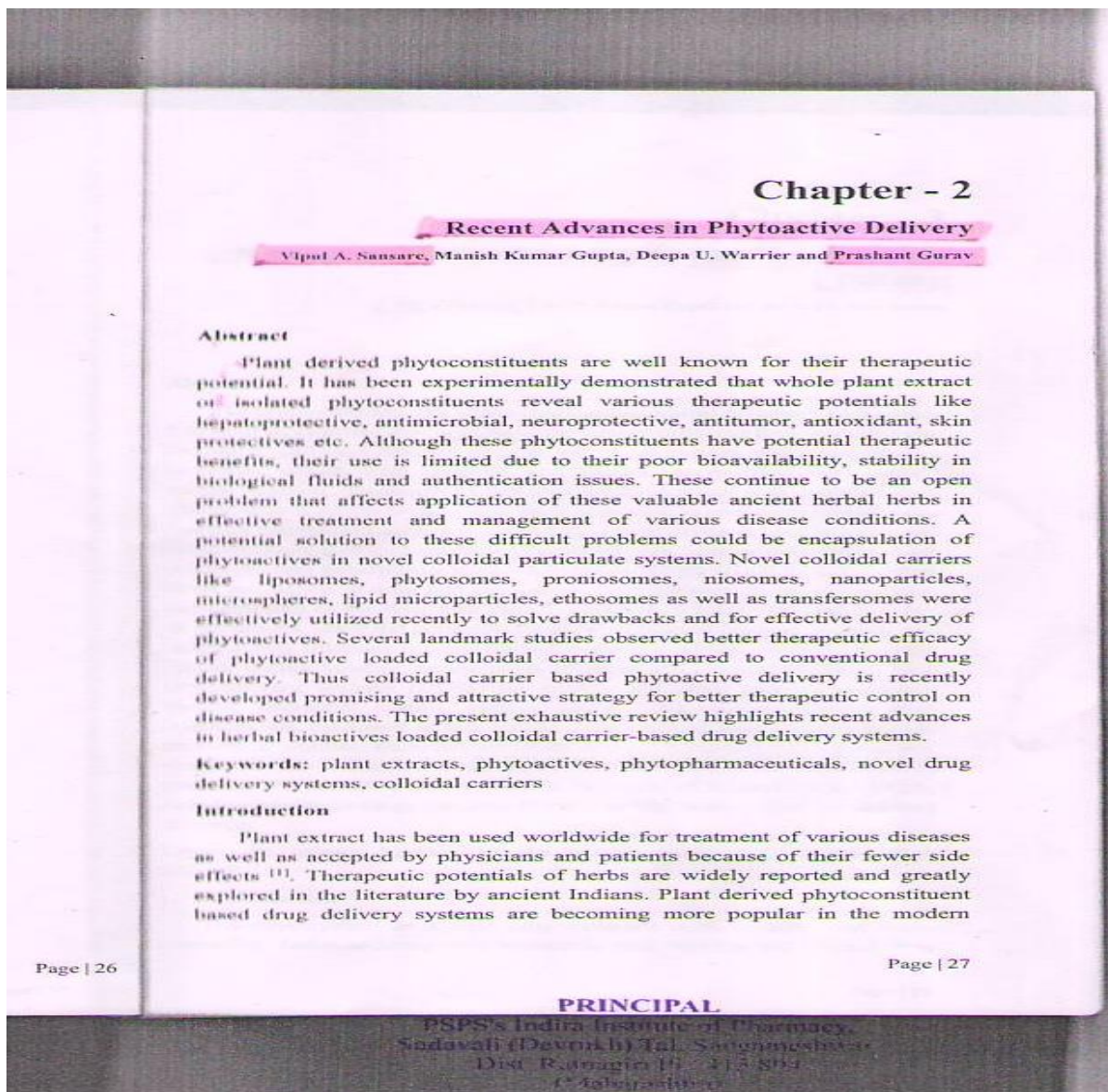
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“RECENT ADVANCES IN PHYTOACTIVE DELIVERY”)**



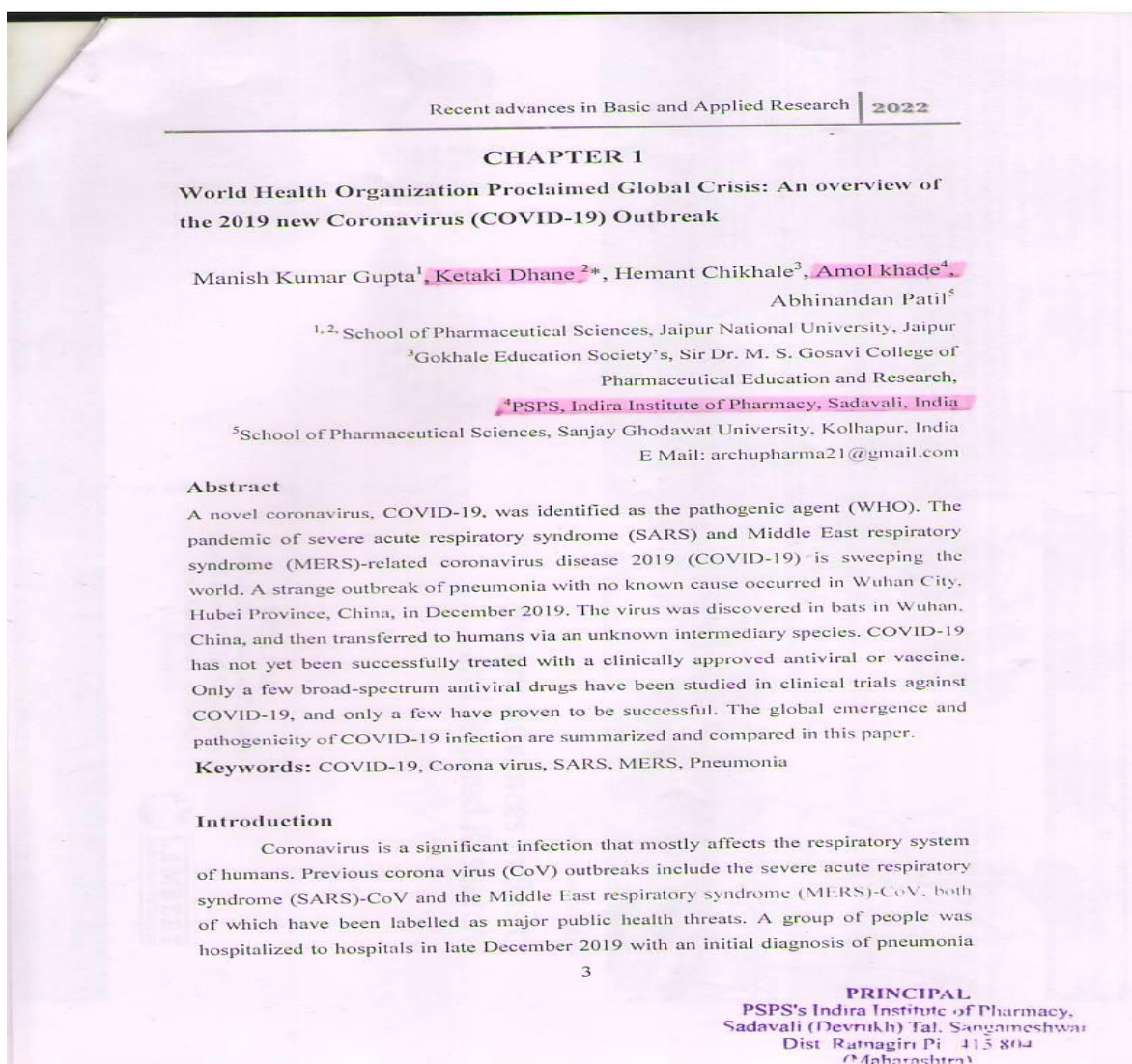

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“DESIGN AND EVALUATION OF SESAMOL LOADED HYALURONIC ACID FUNCTIONALIZED
PHOSPHOLIPID NANOESICLES: DPPH RADICAL SCAVENGING POTENTIAL ASSAY”)**

Nanomed Res J 6(4):347-351, Autumn 2021

RESEARCH ARTICLE

Design and evaluation of sesamol loaded hyaluronic acid functionalized phospholipid nanovesicles: DPPH radical scavenging potential assay

Manish Kumar Gupta¹, Vipul Sansare^{2*}, Birendra Shrivastava³, Santosh Jadhav⁴, Prashant Gurav³

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ARTICLE INFO	ABSTRACT
<p>Article History: Received 16 July 2021 Accepted 28 Oct 2021 Published 01 Nov 2021</p> <p>Keywords: Antioxidant phytoactive Sesamol Hyalurosomes DPPH radical scavenging potential</p>	<p>Objective(s): The unfavorable physicochemical properties of well recognized antioxidant phytoactive sesamol limits its oral bioavailability as well as potential application as an antioxidant drug. The aim of the study is to design and evaluate sesamol encapsulated hyaluronic acid anchored phospholipid nanovesicles to enhance its antioxidant potential.</p> <p>Methods: Drug encapsulated hyalurosomes were prepared using thin film hydration method and evaluated for particle diameter, physical stability, drug encapsulation efficiency, sesamol release behavior in vitro and DPPH radical scavenging assay.</p> <p>Results: The selected method was found to be effective for fabrication of phospholipid nanovesicles with particle diameter 200 ± 10.173 nm and zeta potential -29.8 ± 4.16 mV. The drug loaded hyalurosomes revealed significantly better radical scavenging potential compared to free sesamol and unloaded hyalurosomes.</p> <p>Conclusions: Hyaluronic acid functionalized phospholipid nanovesicles is novel phospholipid based carrier for delivery of phytoactives. Thus formulated phospholipid based system could be acceptable system for delivery sesamol with improved antioxidant potential.</p>

How to cite this article
Kumar Gupta M., Sansare V., Shrivastava B., Jadhav S., Gurav P. Design and evaluation of sesamol loaded hyaluronic acid functionalized phospholipid nanovesicles: DPPH radical scavenging potential assay. *Nanomed Res J*, 2021; 6(4): 347-351. DOI: 10.22034/nmrj.2021.04.004

INTRODUCTION
The poor gastrointestinal bioavailability and significant metabolism via conjugation are major hurdles in oral delivery of plant based antioxidant phytoactive sesamol (SM). SM is phenolic chemical constituent isolated from sesame oil [1]. Chemically SM is [3, 4-methylenedioxyphenol]. Various landmark studies have proved liver protective and antioxidant activities of SM [2]. The solubility of SM in polar solvents is good. In addition to this, the lipophilicity of SM is also good [3]. To solve drawbacks of SM and to enhance oral bioavailability, it need to formulate novel drug delivery system, which can release encapsulated drug in controlled manner and possibly improve drug circulation in the body.

Colloidal nanocarriers are promising nanosized particles for delivery of phytoactive [4]. novel nanovesicles like liposomes [5, 6], ethosomes [7, 8], transfersomes [9, 10], glycosomes [11], glycosomes [12] and hyalurosomes [13] have been investigated phytoactive delivery [14]. Hyalurosomes are phospholipid novel nanovesicles designed using phospholipid and natural polymer i.e. hyaluronic acid [15]. These

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(COLLABORATIVE INITIATIVE – RESEARCH ARTICLE ON “DEVELOPMENT & EVALUATION OF
TOPICAL POLYHERBAL FORMULATIONS FOR THEIR ANTIMICROBIAL POTENTIAL”)**

Sujit Nagare et al., Int. J. Res. Pharm. Sci., 2020, 11(4), 8187-8193

ORIGINAL ARTICLE



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Development and Evaluation of Topical Polyherbal Formulations for their Antimicrobial Potential

Manish Kumar Gupta¹, Sujit Nagare^{*1}, Birendra Shrivastava¹, Supriya Hyam², Ketaki Dhane³

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Article History:	ABSTRACT
Received on: 22 Jul 2020 Revised on: 28 Aug 2020 Accepted on: 03 Sep 2020	The different types of skin diseases caused due to microorganisms. In recent years the use of the traditional medicinal system was increased because of more minor side effects and cost effective. The single herbal drugs were found to be less potent, which can be improved by utilizing more than one herb in the single formulation, known as polyherbal formulation. The present work involved the development and evaluation of the different polyherbal formulations (cream, gel, and emulgel) using natural ingredients. The aim of the present work is to produce a formulation with improved antimicrobial potency and stability of formulations when compared with the individual extracts of herbal drugs. All the prepared formulations were tested against various microbial strains and concluded that the polyherbal formulations (C25, G1, EG1) were found potent against most selected strains. The prepared formulations can be used as a multipurpose formulation.
Keywords: Antimicrobial activity, polyherbal formulations, extracts	

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INTRODUCTION

Microorganisms are the causative agents of almost all acute and chronic diseases. Dermatologic diseases are the fourth most common cause of all human illnesses. Skin disorders cause higher year loss due to disability than other diseases such as diabetes mellitus. There are around 3000 different types of skin disorders. Intensity and symptoms of infections that are self-limiting and benign tumors, chronic inflammatory disorders, and malignant neoplasms are all examples of diseases that cause considerable morbidity and have a negative impact on quality of life. Antibiotics (which kill microorganisms or stop the growth of microorganisms) are the medicines used to treat different infections. Still, they may build resistance due to longer use and becomes less effective. It may produce a severe allergic reaction. It causes diarrhea, abdominal pain, vomiting, and nausea. It also kills the healthy bacteria in the body. To minimize all these drawbacks, herbal medicine has been commonly used for the treatment and prevention of diseases and health promotion, as well as for enhancement of the span and quality of life.

In many developing societies, traditional medicine, of which herbal medicine is a core part, is the only system of health care available or affordable. However, there is a lack of a systematic approach to assessing their safety and effectiveness. The holistic approach to health care makes herbal medicine very attractive to many people, but it also makes scientific evaluation challenging because many factors must be considered. Herbal medicines are in widespread use and although many believe herbal

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**COLLABORATIVE QUALITY INITIATIVE WITH JAIPUR NATIONAL UNIVERSITY, JAIPUR
(COLLABORATIVE INITIATIVE – RESEARCH ARTICLE ON “PREPARATION & EVALUATION OF
TOPICAL POLYHERBAL EMULGEL FORMULATION FOR ITS WOUND HEALING POTENTIAL”)**

Sujit Nagare et al., Int. J. Res. Pharm. Sci., 2020, 11(4), 8181-8186

ORIGINAL ARTICLE



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**Preparation and Evaluation of Topical Polyherbal Emulgel Formulation
for its Wound Healing Potential**

Manish Kumar Gupta¹, Sujit Nagare^{*1}, Birendra Shrivastava¹, Supriya Hyam², Ketaki Dhane³

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²Vijayrao Naik College of Pharmacy, Kankavli, Sindhudurg, Maharashtra, India
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<p>Article History:</p> <p>Received on: 31 Jul 2020 Revised on: 01 Sep 2020 Accepted on: 02 Sep 2020</p> <p>Keywords:</p> <p>Wound Healing Activity, Burnt Wound, Skin Polyherbal Formulations, Emulgel</p>	<p style="text-align: center;">ABSTRACT</p> <p>Physical harm that causes the skin to break or open up are known as wounds. For the repair of broken anatomical continuity and compromised functional status of the skin, proper wound healing is crucial. It is the end result of a coordinated response to harm from various cell types. The contraction and closure of the wound as well as the restoration of a functional barrier are the consequences of the intricate, multifactorial process known as wound healing. Due to its lower risk of side effects and lower cost, traditional medicine has seen increased use in recent years. When more than one herb is included in a single formulation, this is known as a polyherbal formulation, and the potency of the single herbal medications is increased. The purpose of the current study was to assess an emulgel made of developed polyherbal ingredients against wound healing. The current study aims to assess the created formulation's ability to treat burns and excision wounds in terms of wound healing potential. Excise and burn wounds largely recovered. A group of rats given the medication showed signs of re-epithelialization of cells in newly formed tissue. At the healing site, there was also evidence of fibroblastic and vascular procreation. Without the presence of any microorganisms, the formulation effectively increases the rate of epithelialization and collagen viability across the wound region. According to the findings, the produced formulation (EG1) was superior to the extract in terms of effectiveness for wound healing.</p>
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INTRODUCTION

Physical harm that causes the skin to split or open up are called wounds. For the repair of broken anatomi-

cal continuity and compromised functional status of the skin, proper wound healing is crucial. It is the end result of a coordinated response to harm from various cell types. The contraction and closure of the wound as well as the restoration of a functional barrier are the consequences of the multifaceted, complex process of wound healing (Umachigi *et al.*, 2007b). A series of actions, including inflammation, cell proliferation, and cell type migration, result in the repair of damaged tissues (Sidhu *et al.*, 1999). The physiologic process of wound healing is divided into three phases: the substrate phase, the proliferative phase, and the remodeling phase (Umachigi *et al.*, 2007a). A number of cytokines, including growth factors, govern how all these actions are carried out (Pierce *et al.*, 1991). Herbal medicine is a crucial component of traditional medicine, which is

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Ketaki Dhane et al., Int. J. Res. Pharm. Sci., 2020, 11(4), 8216-8221

ORIGINAL ARTICLE



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**UNI-Directional Double Run Multi-Marker Based Standardization of
“Amruthothram” Ayurvedic Medicine by HPTLC**

Manish Kumar Gupta¹, Ketaki Dhane^{*1}, Birendra Shrivastva¹, Supriya Hyam², Sujit Nagare³

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<p><i>Article History:</i></p> <p>Received on: 20 Jul 2020 Revised on: 17 Sep 2020 Accepted on: 21 Sep 2020</p> <p><i>Keywords:</i></p> <p>Amruthothram, standardization, UDDD- HPTLC, Ayurveda</p>	<p style="text-align: center;">ABSTRACT</p> <p>Ayurveda and Unani Medicine are the most classy and commonly practiced systems in India. In India's AYUSH systems, some 8,000 herbal remedies have been codified. Amruthotharam/Amrutottaram Kashayam is one of such preparation which takes care of metabolic disorders through inflammation. The formulation contains guduchi (<i>Tinospora cordifolia</i>), haritaki (<i>Terminalia chebula</i>), and shunthi (<i>Zingiber officinale</i>) in the ratio 6:4:2. Natural remedies obtained from wild sources; therefore, sustaining consistent product quality is difficult because of extrinsic variables including soil conditions, light and water availability, temperature changes, nutrients, and geographic location. The present work aimed to develop and validate uni-dimensional double development high-performance thin layer chromatography to standardize the marker-based compounds such as gallic acid, berberine and gingerol-6, because the power of one-dimensional chromatography is often inadequate for complete resolution of the components present in complex samples which can be improved by separating actives through UDDD.</p>
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INTRODUCTION

The term Traditional herbal medicine is a knowledge, skills, and practices relies on indigenous concepts, beliefs, as well as experiences used to maintain health also to prevent, diagnose, improve or cure physical as well as mental illness (World Health Organization, <http://www.who.int/topics/traditional-medicine/en/>). Traditional medicine is divided

into many diverse systems, each having its own philosophy and practices inspired by the geographic place as well as environmental conditions in which it first developed (WHO, 2005). Though, a prevalent concept is a holistic approach to life, which emphasizes the body, mind, also environment, as well as a focus on health rather than sickness (WHO 2005). Herb comes from the Latin word "herba" and the old French word "herbe." Together, these two words form the modern English word "herb." Today, the term "herb" can be used to refer to any part of a plant, such as the seed, flower, fruit, stem, leaf, bark, stigma, or root, also the plants that are not woody. According to the evidence, Unani Hakims, Indian Vaid, cultures from Europe and the Mediterranean, and cultures from the rest of the world have all employed plants as medicine for more than 4000 years. Indigenous communities in Rome, Egypt, Iran, Africa, and America practised healing rituals that involved the use of herbs. Other indigenous communities developed traditional medical practises, such as Unani, Ayurveda, and Chinese

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Ketaki Dhane et al., Int. J. Res. Pharm. Sci., 2020, 11(4), 8194-8200

ORIGINAL ARTICLE



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Evaluation of the Impact of the Ayurvedic Formulation “Amruthotharam” on Obesity-Related Diabetic and Hepatic Disorders

Manish Kumar Gupta¹, Ketaki Dhane^{*1}, Birendra Shrivastva¹, Supriya Hyam², Sujit Nagare³

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<p>Article History:</p> <p>Received on: 03 Aug 2020 Revised on: 05 Sep 2020 Accepted on: 07 Sep 2020</p> <p>Keywords:</p> <p>Amruthotharam, anti-diabetic potential, traditional method, herbal formulation</p>	<p style="text-align: center;">ABSTRACT</p> <p>Diabetes mellitus (DM) is a non-communicable disease that affects people all over the world and is defined by ongoing hyperglycemia. Sulfonylureas, biguanides, -glucosidase inhibitors, and non-sulfonylurea secretagogues are a few oral hypoglycemic medications that are frequently recommended by doctors for managing diabetes. Oral hypoglycemic medication use causes noticeable negative effects, and there is currently no permanent viable treatment for DM recovery. Complementary and alternative therapies must be used to lower the incidence of disease until better medical methods are discovered. The search for an efficient medication, either by itself or in combination, to treat diabetes continues to be fruitless. This might have a viable replacement in the shape of herbal preparations, which are widely employed in conventional medical systems. In order to determine the impact of Amruthotharam kashaya prepared using a traditional method for a four-week treatment period on blood glucose levels as well as other biochemical parameters like total cholesterol, LDL, HDL, and VLDL in HFD-alloxan-induced diabetic rats, the present study was designed. Significant weight loss was also seen with diabetes management, and this was partially reversed after formulation administration. The formulation significantly decreased increased levels of a few particular biochemical markers and avoided other hyperglycemia-related complications. These findings offer scientific support for the anti-diabetic usage of a conventional formulation and imply that the administration of the formulation to rats can be used safely by humans because it lowers the levels of several biochemical factors that contribute to diabetes.</p>
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<p>*Corresponding Author</p> <p>Name: Ketaki Dhane Phone: 8308945325 Email: archupharma21@gmail.com</p> <p>ISSN: 0975-7538 DOI: https://doi.org/10.26452/ijrps.v11i4.1813</p> <p>Production and Hosted by IJRPS www.ijrps.com © 2020 All rights reserved.</p>	<p style="text-align: center;">INTRODUCTION</p> <p>Diabetes is a metabolic condition that manifests as frequent urination, thirst, and hunger in addition to high or above-normal blood glucose levels (70–110 mg/dL). The main causes are either decreased insulin synthesis by β-cells or diminished insulin sensitivity in cells. (Singab <i>et al.</i>, 2014) Diabetes raises the chance of obesity, heredity, ageing, hereditary insulin receptor and beta-cell function alterations, medication and infection abuse, and other cofactors. Type 1 diabetes, type 2 diabetes, and type 3 diabetes are the three forms of diabetes according to pathological reasons.</p>
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A review on metabolic syndrome

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Abstract--Metabolic syndrome is considered a major reason for the emergence of chronic dreadful diseases. Obesity and wrong food habit are key factors for metabolic syndrome. Globally people are affected by glucose intolerance, central obesity, hypertension, and dyslipidemia. Diabetes is a major part of metabolic syndrome. Targeted anti-inflammatory therapy has been suggested for both prevention and treatment of many of the above-said syndrome especially diabetes. Diet is an important regulatory factor in the immune response. There is considerable evidence to suggest that malnutrition leads to immune suppression due to a susceptibility to infection. On the other hand, over-nutrition leads to immune activation due to a susceptibility to an inflammatory condition. Inflammation may have an important role in the development and progression of diabetes and its complications; however, the impact of experimental anti-inflammatory treatments on diabetes deterioration over time and cardiovascular outcomes is still elusive. Thus proper diet with some drug therapy not only resolves the issue but can prevent the progression of the disease at extreme levels.


Keywords---metabolic syndrome, obesity, inflammation, diabetes, diet.

International Journal of Health Sciences ISSN 2550-6976 E-ISSN 2550-696X © 2022.

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COLLABORATIVE QUALITY INITIATIVE WITH JAIPUR NATIONAL UNIVERSITY, JAIPUR (COLLABORATIVE INITIATIVE – RESEARCH ARTICLE ON “FABRICATION AND EVALUATION OF MANNOSE DECORATED CURCUMIN LOADED NANOSTRUCTURED LIPID CARRIERS FOR HEPATOCTE TARGETING: IN VIVO HEPATOPROTECTIVE ACTIVITY IN WISTAR RATS”)

Current Research in Pharmacology and Drug Discovery 3 (2022) 100083

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Current Research in Pharmacology and Drug Discovery
Journal homepage: www.journals.elsevier.com/current-research-in-pharmacology-and-drug-discovery

Fabrication and evaluation of mannose decorated curcumin loaded nanostructured lipid carriers for hepatocyte targeting: *In vivo* hepatoprotective activity in Wistar rats

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ARTICLE INFO

Keywords:
D-mannose
Mannose stearylamine conjugate
Asialoglycoprotein receptors
Curcumin
Hepatocytes targeting

ABSTRACT

Curcumin is a well-recognized antioxidant phytoactive isolated from the rhizomes of *Curcuma longa*. Numerous landmark investigations have proved the antioxidant and hepatoprotective potential of curcumin. The aim of present study was to target curcumin loaded nanocarriers to hepatocytes using asialoglycoprotein receptors targeting strategy. Mannose, a water-soluble carbohydrate, was hydrophobized by anchoring stearylamine with an objective to conjugate mannose on the surface of curcumin loaded nanostructured lipid carriers for targeting asialoglycoprotein receptors on hepatocytes. Mannose conjugated stearylamine was synthesized and characterized using various analytical techniques. The synthesized targeting ligand was incorporated curcumin loaded nanostructured lipid carriers and characterized by photon correlation spectroscopy. Zeta potential measurement was used to confirm the conjugation of the synthesized ligand to the surface of drug-loaded nanostructured lipid carriers. CCl₄ induced hepatotoxicity in male Wistar rats was used as an experimental animal model to evaluate the hepatoprotective potential of formulated drug encapsulated nanostructured lipid carriers. The hepatoprotective potential was assessed by measuring serum liver injury markers and oxidative stress parameters in the liver post-mitochondrial supernatant. Mannose conjugated nanostructured lipid carriers showed acceptable particle size which revealed its suitability for hepatocyte targeting. In addition to this, mannose conjugated nanocarriers revealed significantly better ($p < 0.05$) reduction of serum liver injury markers and proinflammatory cytokines compared to the unconjugated one which confirmed hepatocytes targeting potential of the synthesized ligand. Asialoglycoprotein receptors targeting could be a landmark strategy for hepatocyte targeting. Thus, the synthesized mannose anchored stearylamine could be a promising novel targeting ligand having hepatocyte targeting potential.

1. Introduction

Liver is a complex and specialized organ which regulates numerous biochemical functions like synthesis and metabolism of a number of complex molecules. Various liver diseases affect millions of people worldwide, which are difficult to treat with conventional drug delivery (Bartneck et al., 2014). World Health Organization has reported 30–50% of liver cirrhosis globally due to alcohol consumption and more than 300 million cases of chronic hepatitis infections in 2020 (Vasanthkumar et al., 2017). Numerous drugs have been investigated for the treatment of diseases associated with liver, however a correct drug delivery system needs to be found for the delivery of drugs. Majority of conventionally administered drugs are accumulated in the liver, however, the efficient therapeutic effect in diseases like hepatocellular carcinoma, hepatitis, liver cirrhosis and hepatic tuberculosis is not achieved. To overcome the limitations associated with conventional drug delivery, novel colloidal carriers like liposomes (Castangia et al., 2015; Shah et al., 2013; Tang and Ge, 2017), nanoparticles (NPs) (Guhagarkar et al., 2015; Raposo et al., 2020), solid lipid nanoparticles (SLNs) (Bonferoni et al., 2018; Kakkar and Kaur, 2012; Mohanlakshmi

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MEMORANDUM OF UNDERSTANDING (MoU)

The Prabhodhan Shikshan Prasarak Sanstha's Indra Institute of Pharmacy, Sadavali, Tal: Sangameshwar, Dist: Ratnagiri hereinafter referred to as the **first party** (which term the next otherwise requires shall include its representatives, successors or assignees of the second party)

And

Govindrao Nikam College of Pharmacy, Sawarde, Tal. Chiplun & Dist. Ratnagiri herein referred to as second party (which term the context otherwise requires shall include its representative success of assignees of the first party)

PREAMBLE:

- The Prabhodhan Shikshan Prasarak Sanstha established Indra Institute of Pharmacy at Sadavali (Devrukh) in the year 2008 which offers B. Pharmacy programme approved by PCI and AICTE, New Delhi, Recognized by the Directorate of Technical Education, Government of Maharashtra and is affiliated to the University of Mumbai. IIP is located on 6 acres of land at village Sadavali. The institute has spacious lecture halls, tutorial halls, seminar room, well-equipped laboratories, Computer Lab and a voluminous library to impart best pharmaceutical education to the students. The institute has well-equipped laboratories with highly qualified teaching faculty in all the branches. The institute is engaged in quality research and has qualified and experienced faculty.
- Govindrao Nikam College of Pharmacy, Sawarde is situated in Sawarde, Ratnagiri in the Maharashtra state of India. Established in 2005, it is approved by AICTE, the State Government of Maharashtra and DTE Mumbai, and it is affiliated to the University of Mumbai. Sawarde Pharmacy, Ratnagiri offers 3 courses namely Diploma Pharmacy and Degrees like, B.Pharm, M.Pharm. Sawarde Pharmacy campus is spread over 6.23 Acres. Hostel facility is available for the students.




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Goals and Objectives

The **first party** is engaged in teaching and research in Pharmaceutical Sciences.

The **second party** is engaged in teaching and research in Pharmaceutical Sciences.

The **first party** and the **second party** have agreed to exchange the expertise and to share the infrastructural facilities for mutual benefit such as

1. Usage of instrumental facilities by the students and faculty with the prior permission of the Head of the institutes of both the parties.
2. Usage of library books, study material, etc., by the students and faculty with the prior permission of the Head of the institutes of both the parties.
3. Faculty and student exchange for mutual benefit.

Now this deed of **MOU** is agreed by and between the parties under the following terms and conditions.

Terms and Conditions:

1. The library facilities will be shared at the premises of **both parties** as per the need for work mutually agreed upon.
2. The infrastructural facilities will be shared at the premises of both parties as per the need of work mutually agreed upon.
3. **Both parties** may allow students of D. Pharm/ B. Pharm/M.Pharm to utilize the expertise of faculty and/or students of their organizations. The required books and/or study material will be issued to the students on college premises (if applicable) for their studies other than those available with the **second party** and are to be made available by the **first party** and vice versa.
4. Any publication(s) related to the work/study shall acknowledge the assistance provided (if any) by the **first party** and vice-versa.
5. All facilities shared between **both parties** shall be reviewed every six months by a joint committee appointed for the purpose of **both the parties** in order to advise on the future courses of sharing.
6. Any dispute arising shall be settled through mutual negotiations only without recourse to resolving the dispute by legal means or at the most by arbitration on mutual terms.

Signed on 04/04/2022

04/04/2022
Principal

Principal



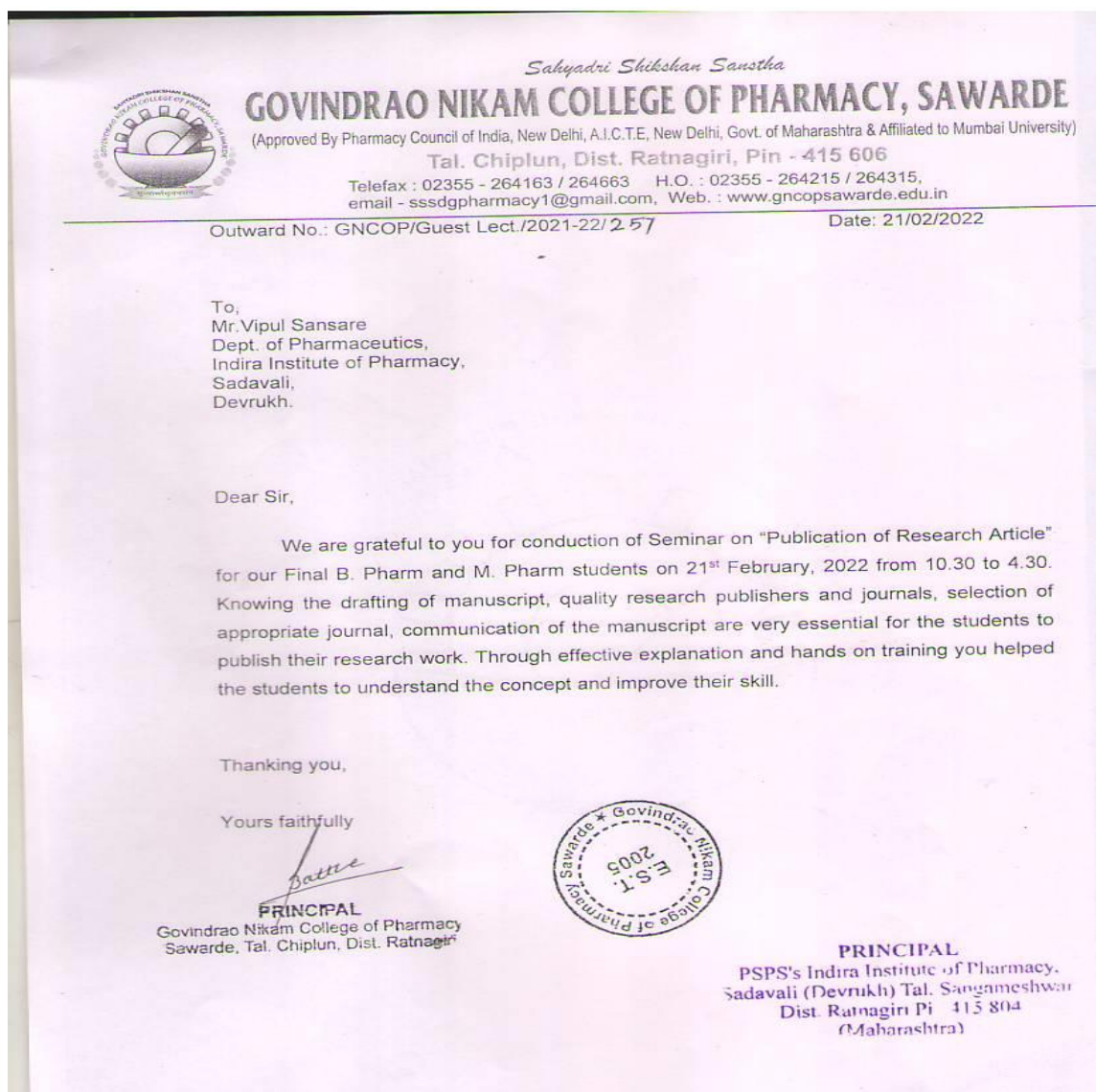
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(COLLABORATIVE ACTIVITY – SEMINAR ON “PUBLICATION OF RESEARCH ARTICLE”)**



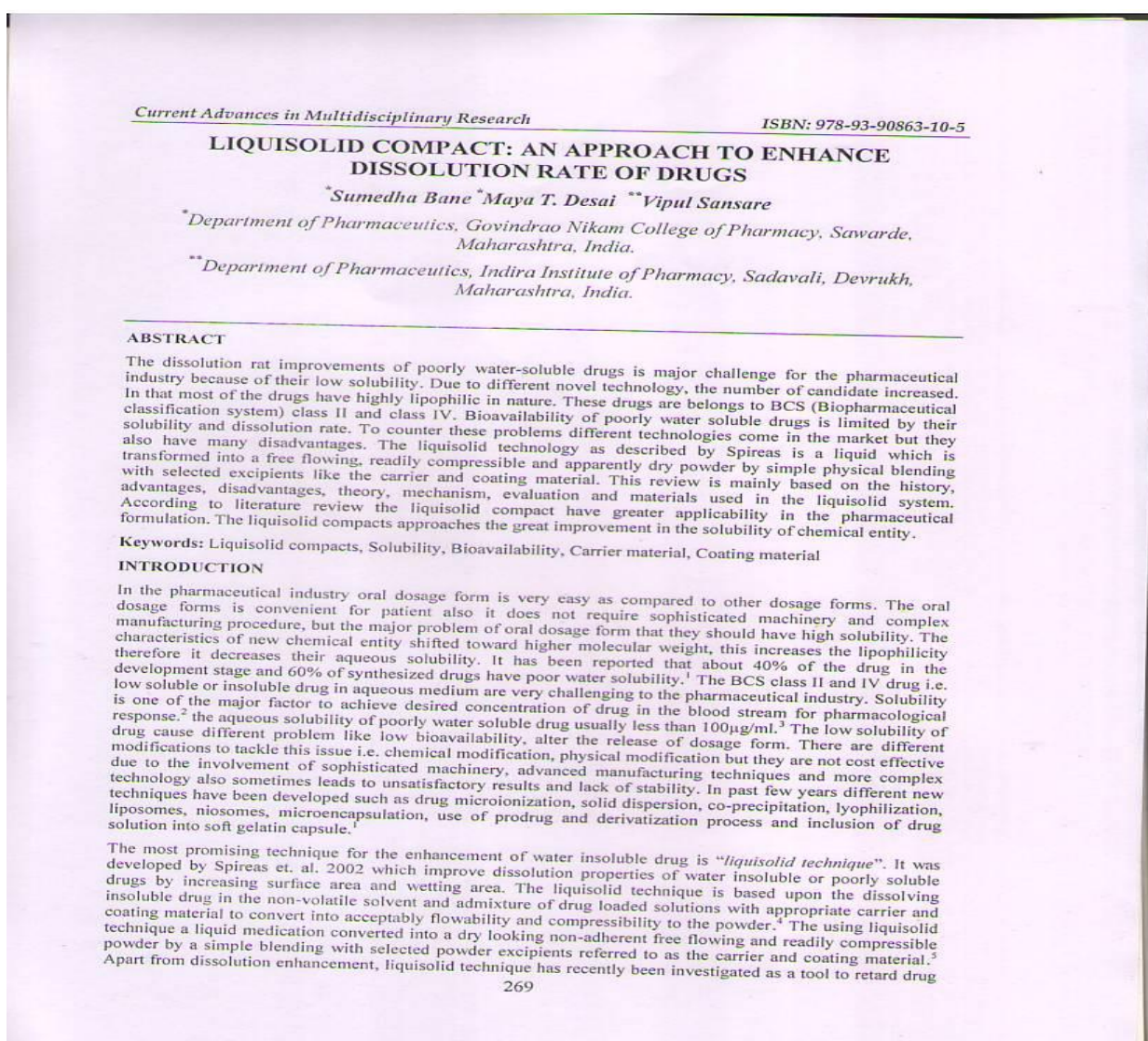
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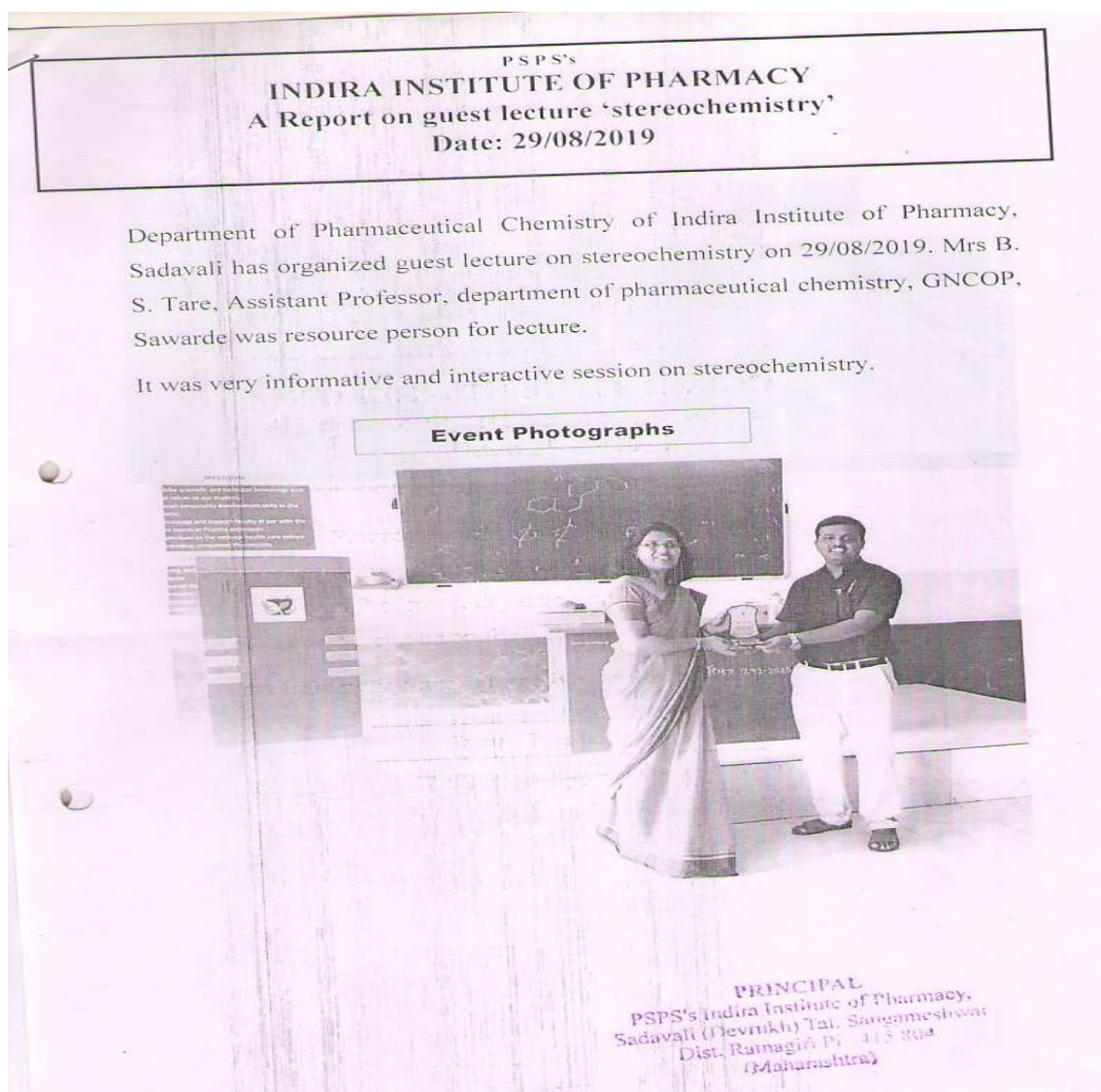
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**COLLABORATIVE QUALITY INITIATIVE WITH
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(COLLABORATIVE ACTIVITY – RESEARCH ARTICLE ON “LIQUISOLID COMPACT: AN APPROACH
TO ENHANCE DISSOLUTION RATE OF DRUGS”)**




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(COLLABORATIVE ACTIVITY – GUEST LECTURE ON “STEREOCHEMISTRY”)




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(COLLABORATIVE ACTIVITY – GUEST LECTURE ON “NOVEL DRUG DELIVERY SYSTEM”)

P S P S 'S
INDIRA INSTITUTE OF PHARMACY
A Report on guest lecture 'Novel Drug Delivery System'
Date: 29/08/2019

Department of Pharmaceutics of Indra Institute of Pharmacy has organized guest lecture on 'Novel Drug Delivery System' on 29th August 2019. Mrs Maya T. Desai, Associate professor, department of pharmaceutics, GNCOP, Sawarde was resource person for lecture.

It was an intriguing and informative session wherein she explained the importance of 'Novel Drug Delivery System' in drug delivery. The objective of the lecture was to focus on the NDDS in drug delivery.

Event Photographs



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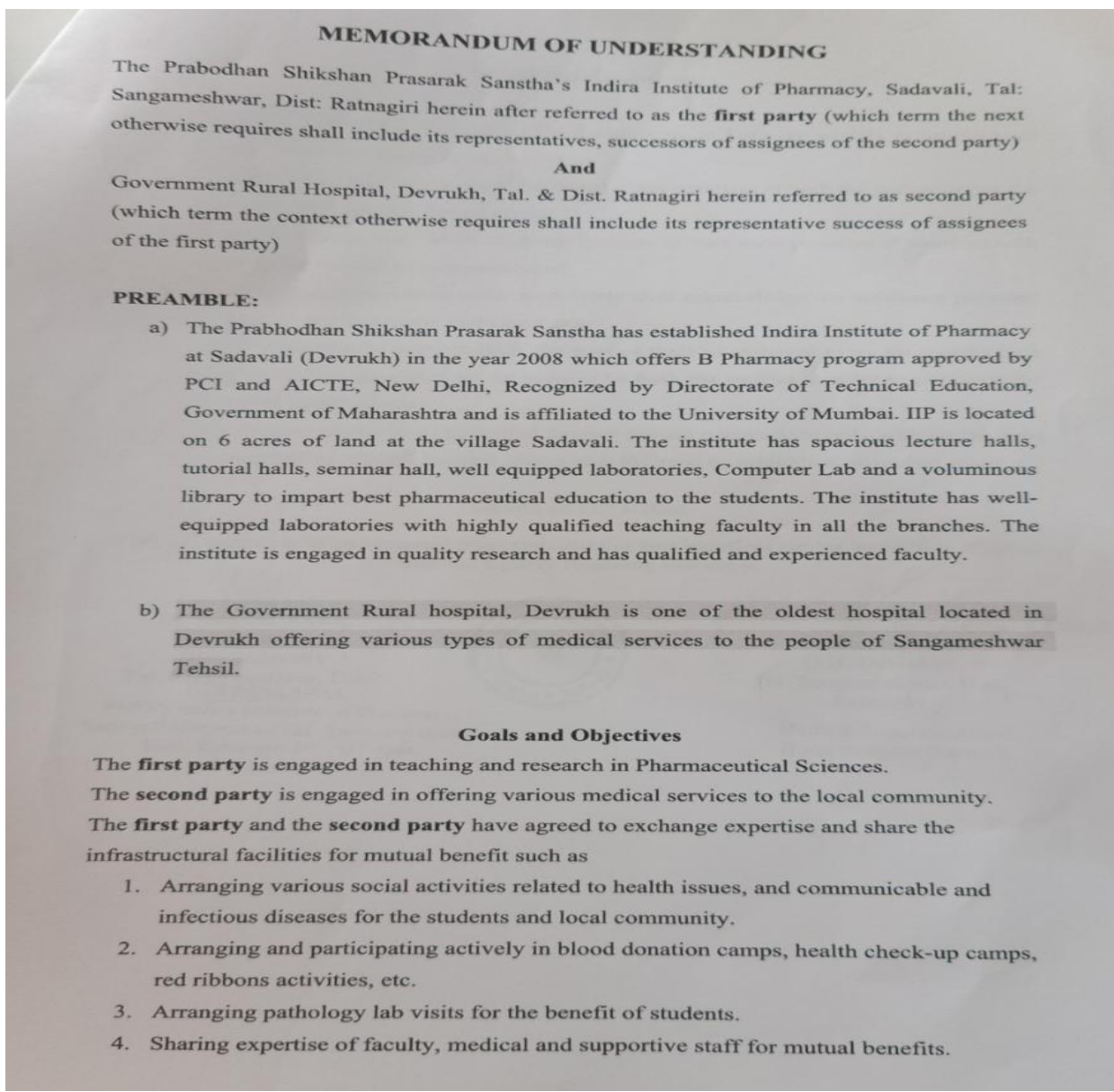

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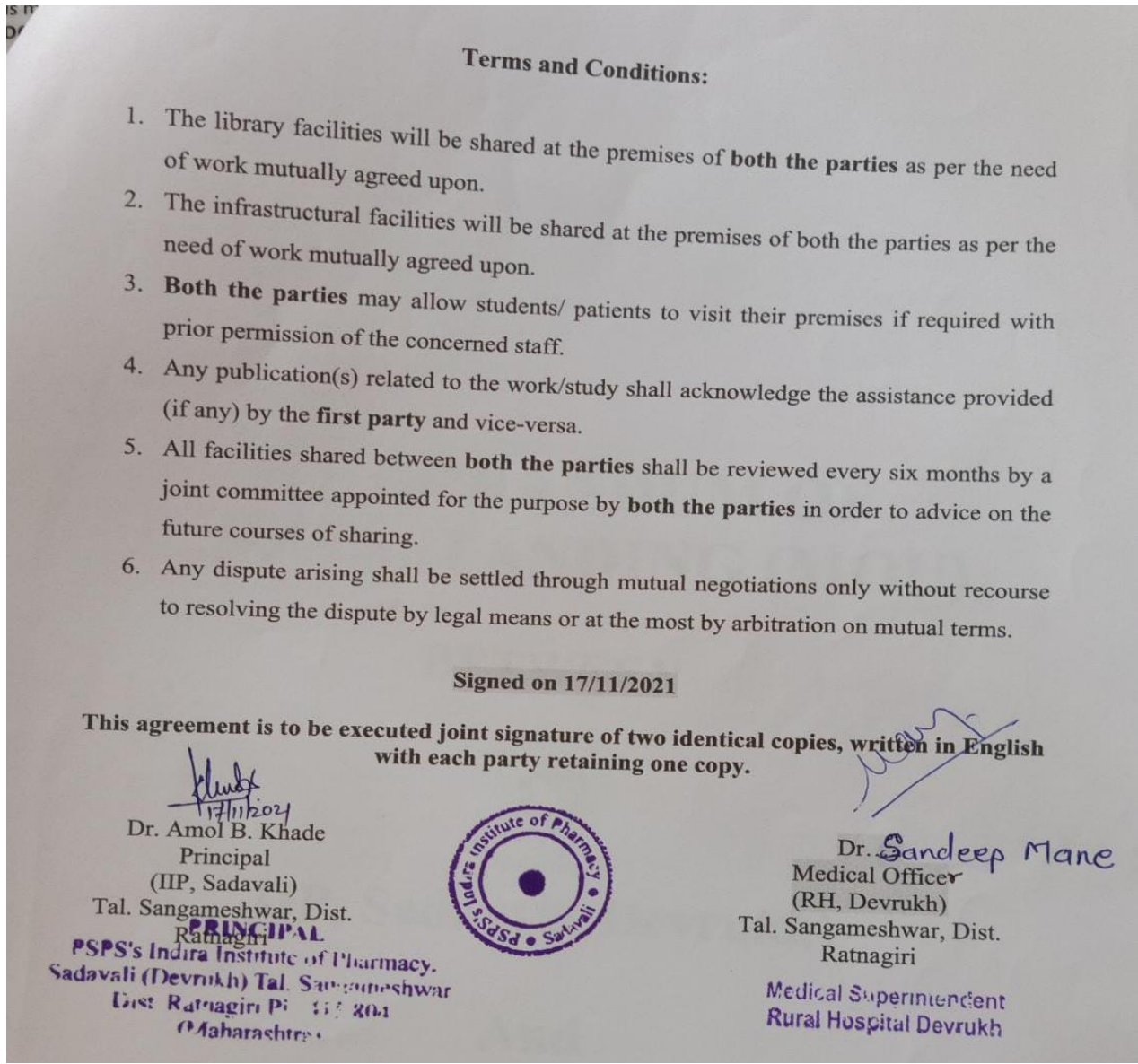

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(COLLABORATIVE INITIATIVE – BLOOD GROUP TESTING, HIV TESTING & AWARENESS)**

National Service Scheme Unit of Indira Institute of Pharmacy, Sadavali organized one day Blood group detection camp in association with ICTC Department, Primary Health Centre, Devrukh at well known temple 'Soljai', Devrukh on 12/03/2022. The both programs were organized on the occasion of festival at Devrukh region. 20 NSS volunteers were actively involved in testing of blood group of people who visited temple. Mr. T. L. Patwardhan (Asst. Professor of Pharmacology) and Ms. A. V. Berde (Lecturer) played key role in creating awareness about blood group detection. In addition to this, 'poster exhibition' on 'HIV AIDS Awareness' was organized in association with DCAD College, Devrukh. Mrs. Snehalata Pujari and Mrs. Vidya Mane (ICTC Department) awarded helping hands for successful organization of both programmes.

Event Photographs



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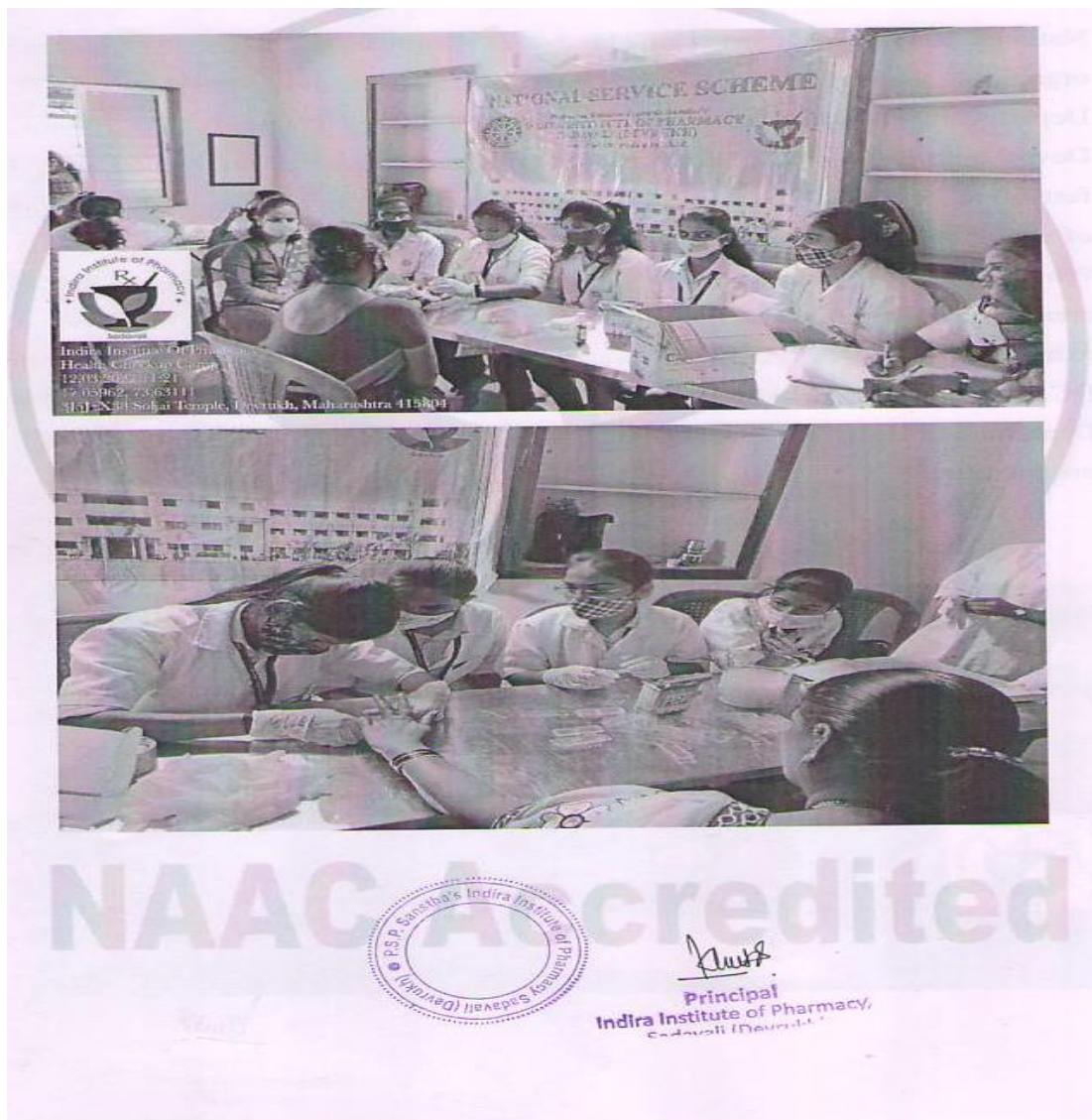
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(COLLABORATIVE INITIATIVE – BLOOD GROUP TESTING, HIV TESTING & AWARENESS)**




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(COLLABORATIVE INITIATIVE – BLOOD DONATION, BLOOD GROUP TESTING, HIV TESTING &
AWARENESS ON NPW)**

D

माजी राज्यमंत्री श्री. रवींद्रजी माने यांच्या प्रेरणेतून साडवलीच्या फार्मसी महाविद्यालयात विविध राष्ट्रीय औषधशास्त्र सप्ताह २०२१ उपक्रमांतर्गत विविध कार्यक्रमांचे आयोजन साडवली येथील प्रबोधन शिक्षण प्रसारक संस्थेचे, इंदिरा इन्स्टिट्यूट ऑफ फार्मसी येथे राष्ट्रीय फार्मसी आठवड्याचे औचित्य साधून महाविद्यालयाच्या राष्ट्रीय सेवा योजना, उन्नत भारत अभियान व भक्तश्रेष्ठ श्री. वालावलकर रुग्णालय, डेरवण आणि आय. सी. टी. सी. विभाग, ग्रामीण रुग्णालय, देवरुख यांच्या संयुक्त विद्यमाने विविध उपक्रमांचे आयोजन करण्यात आले.

सदर उपक्रमांमध्ये श्री. स्वामी समर्थ रक्तपेढी, डेरवण यांच्यामार्फत रक्तदान शिबीर आयोजित करण्यात आले. रक्तदानाच्या या महायज्ञात महाविद्यालयातील 15 विद्यार्थी व संपावर असून देखील महाराष्ट्र राज्य परिवहन मंडळाच्या 15 कर्मचाऱ्यांनी रक्तदान केले.

मान्यवरांनी महाविद्यालयीन उपक्रमास भरभरून दाद दिली व कोविड कालावधीत महाविद्यालयाची रक्तदानाच्या माध्यमातून समाजाप्रती जपलेल्या बांधिलकी बद्दल कौतुक केले. सदर शिबिरात ३० जणांनी रक्तदान करून सामाजिक हित साधले. ग्रामीण रुग्णालयाच्या अंतर्गत महाविद्यालयीन विद्यार्थ्यांचे एड्स व इतर संसर्गजन्य रोगांबद्दल समुपदेशन करण्यात आले. ग्रामीण रुग्णालयामार्फत एकूण १७० विद्यार्थ्यांचे एच. आई. व्ही. आणि डायबिटीस असणाऱ्या कर्मचाऱ्यांचे रक्त शर्करा तपासणी शिबीर घेण्यात आले. महाविद्यालयामध्ये विद्यार्थ्यांसाठी प्रश्नमंजुषा स्पर्धा आयोजित करण्यात आली होती. सदर स्पर्धेमध्ये महाविद्यालयाच्या पदवी आणि पदविका विद्यार्थ्यांनी उत्स्फूर्त सहभाग नोंदवला.

विद्यार्थ्यांनी NPW - नॅशनल फार्मसी विकचा लोगो विद्यार्थ्यांनं मानवी साखळी मार्फत साकारला.

सन २०२० मध्ये केंद्र सरकारच्या उन्नत भारत अभियाना अंतर्गत, आय. आय. टी. मुंबई आणि जिल्हा एड्स नियंत्रण कक्ष, महाराष्ट्र राज्य यांच्या अंतर्गत कोविड १९ विषयावरील पोस्टर मेकिंग, निबंध व व्हिडिओ मेकिंग स्पर्धा घेण्यात आल्या होत्या.

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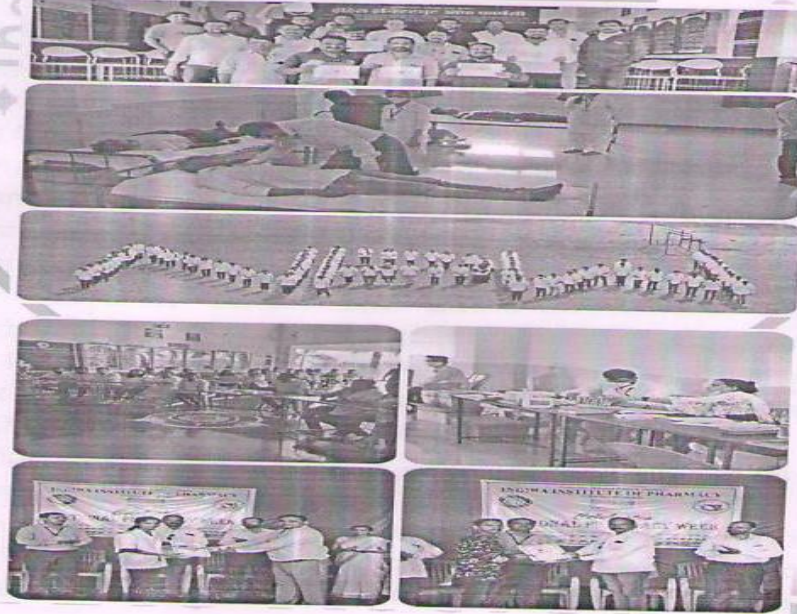



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(COLLABORATIVE INITIATIVE – BLOOD DONATION, BLOOD GROUP TESTING, HIV TESTING &
AWARENESS ON NPW)**

सदर स्पर्धामध्ये राज्य व जिल्हा स्तरावर पारितोषिक मिळालेल्या सर्व विद्यार्थ्यांचा सत्कार मान्यवरांच्या हस्ते करण्यात आला.
उपक्रमांच्या उदघाटनप्रसंगी संस्थेचे चेअरमन श्री. रवींद्रजी माने, सौ. नेहा माने, सामाजिक कार्यकर्ते श्री यूयुतसू आर्ते, साडवली गावचे सरपंच श्री. राजू शेट जाधव मीनाताई ठाकरे महाविद्यालयाचे प्राचार्य श्री. बळवंत नलावडे, प्राचार्य डॉ. अमोल खाडे, पदविका विभाग प्रमुख श्री. सुजित नगरे, आय. सी. टी. सी. विभागाच्या सौ. वैशाली पुजारी, सौ. विद्या माने व इतर प्राध्यापक उपस्थित होते.

Event Photographs



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