

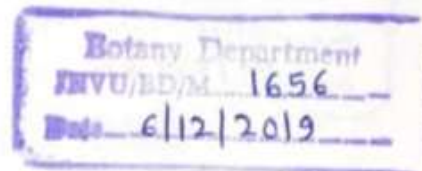
Dr. Pawan K. Kasera
Professor & Head



DEPARTMENT OF BOTANY
J.N. VYAS UNIVERSITY
JODHPUR 342005 (Raj.)


CENTRE OF ADVANCED STUDY

CERTIFICATE



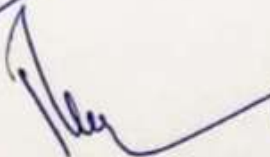
Certified that the present thesis entitled: "**Biology and chemical characterization of some tuberous medicinal plants**" is being submitted in full requirement for the Degree of Doctor of Philosophy to the Jai Narain Vyas University, Jodhpur. It is a record of original investigation carried out by (Ms.) Arti Soni, CSIR-NET SRF, who worked with me as a Research Scholar. This work has been carried out under my supervision and has not been submitted for any degree to any other University in India or abroad.

December 6, 2019


[Pawan K. Kasera]
Research Supervisor

Dr. Pawan K. Kasera
Professor
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CENTRE OF ADVANCED STUDY

Botany Department
JNVU/JODHPUR/1015
Date 22/10/19

PRE-Ph.D. THESIS SUBMISSION PRESENTATION

CERTIFICATE

This is to certify that (Ms.) **Arti Soni**, Ph.D. scholar (Registration No. JNVU/Aca/R/14/363) is working with Professor Pawan K. Kasera in the Department of Botany (UGC-CAS) on the topic entitled: "**BIOLOGY AND CHEMICAL CHARACTERIZATION OF SOME TUBEROUS MEDICINAL PLANTS**". She has joined the Plant Ecology Laboratory on 05.02.2013 and registered on 22.01.2014 after completion of Ph.D. course work. She has satisfactorily completed the Pre-Ph.D. thesis submission presentation held on 19th October 2019, that is a part of the Ph.D. program.


[Pawan K. Kasera] 20.10.19

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JAI NARAIN VYAS UNIVERSITY, JODHPUR
FACULTY OF SCIENCE

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Date : 02/01/2014

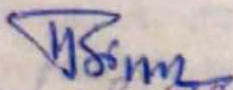
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This is to certify that Mr./Ms. Aoti Soni

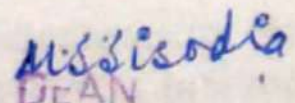
_____ in the Department of Botany

Jai Narain Vyas University, Jodhpur has qualified the
course work organized by the university during
Session 2012 - 2013.

This Certificate is issued in accordance with
the provisions of UGC (Minimum Standards and
Procedure for Award of M.Phil/Ph.D. Degree)
Regulations 2009 notified in the Gazette of India on
11th July 2009.



HEAD


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CERTIFICATE OF PLAGIARISM CHECK

1.	Name of the Research Scholar	(Ms.) ARTI SONI
2.	Course of the study	Ph.D. (Botany)
3.	Title of the Thesis	BIOLOGY AND CHEMICAL CHARACTERIZATION OF SOME TUBEROUS MEDICINAL PLANTS
4.	Name of the Research Supervisor	PROF. PAWAN K. KASERA
5.	Department	DEPARTMENT OF BOTANY, CENTRE OF ADVANCED STUDY J. N. V. UNIVERSITY, JODHPUR (RAJASTHAN)
6.	Acceptable Maximum Limit	10%
7.	Percentage of Similarity of content identified	2%
8.	Software used	URKUND
9.	Date of verification	25.11.2019

URKUND Analysis result report is attached

Date: November 29th, 2019

Signature of the Candidate

Signature of the Supervisor

Dr. Pawan K. Kasera
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JODHPUR-342 033 (Raj.)

Urkund AnalysisResult

Analysed Document: Arti Thesis .pdf (D59571926)
Submitted: 11/25/2019 12:58:00 PM
Submitted By: pkkasera1963@gmail.com
Significance: 2 %

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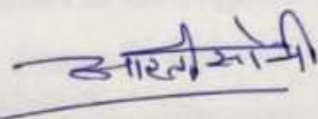
DECLARATION

The work compiled in present thesis entitled "**BIOLOGY AND CHEMICAL CHARACTERIZATION OF SOME TUBEROUS MEDICINAL PLANTS**" is submitted for the degree of Doctor of Philosophy to Jai Narain Vyas University, Jodhpur. The research described herein was conducted under the supervision of **Professor Pawan K. Kasera**, Department of Botany, Centre of Advanced Study, Jai Narain Vyas University, Jodhpur since January 2014 to till date.

To the best of my knowledge this work is original, except where acknowledgement and references are made to the previous work. The work has not been submitted so far, in part or in full, for award of any other degree, diploma or other qualification in this or any other University.

Part of this work has been published in the form of following research papers:

1. Soni, A. and Kasera, P.K. 2018. Evaluation of secondary metabolites in three tuberous medicinal plants during different months from south-eastern part of Rajasthan. *Journal of Pharmacognosy and Phytochemistry*, 7: 474-477.
2. Soni, A. and Kasera, P.K. 2018. Temporal variability in primary metabolites in some tuberous medicinal plants from the Sitamata Wildlife Sanctuary, Pratapgarh (Rajasthan). *Open Access Journal of Medicinal and Aromatic Plants*, 9: 42-51 {Scopus; ISSN Number: 0974-7877}
3. Kasera, P.K., Soni, A., Daiya, K. and Sagar, A. 2018. Evaluation of phytochemical variations in medicinal plants of Rajasthan. *International Journal of Phytocosmetics and Natural Ingredients*, 5:12 (DOI: 10.15171/ijpni.2018.12)
4. Soni, A. and Kasera, P.K. 2019. Physico-chemical properties of soils underneath tuberous medicinal plants from Sitamata Wildlife Sanctuary. *Indian Journal of Ecology*, 46: 772-776 {Scopus; ISSN Number: 0304-5250}
5. Soni, A. and Kasera, P.K. 2019. Temporal heterogeneity in primary and secondary metabolic products of medicinally important tuberous plants from the Sitamata Wildlife Sanctuary, Pratapgarh (Rajasthan). *Bangladesh Journal of Botany (Revised)* {Web of Science, Thomson Reuter Indexing, ISSN Number: 0253-5416}



(Arti Soni)
Research Scholar