

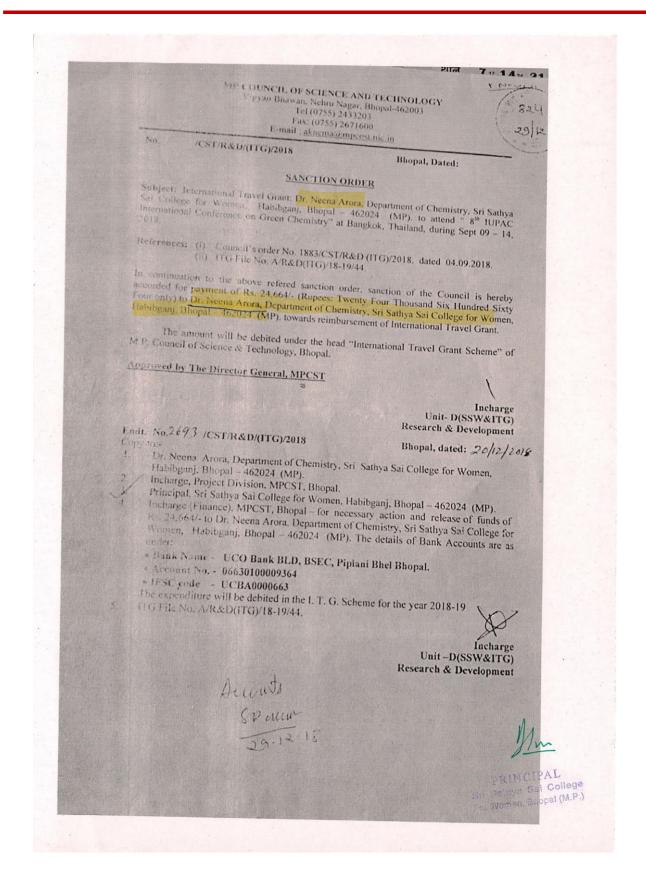


3.1.3 Percentage of teachers receiving national/international fellowship/financial support by various agencies for advanced studies/ research during the last five years

research during the last live years								
Name of the teacher received the national/ international	Name of the fellowship	Financial support (amount in INR)	Pupose of the grant	Stature of fellowship (national/In ternational)	Awarding Agency	Year of Award	Link to the Grant letter/Award Letter	
Dr. Neena Arora	Travel Grant	24,664/-	Presenting Paper at 8th IUPAC International Conference on green Chemistry, Bangkok, Thailand	National	M <mark>PCST, Bhop</mark> a	2018	https://www.srisatya saiedubpl.org/NAA C/PDFs/Criteria%20 3/3.1.3%20teacher s%20receiving%20 fellowship%20or%2 Ofinancial%20supp	
Dr. Kiran Shandilya	Travel Grant	24,685/-	Presenting Paper at 8th IUPAC International Conference on green Chemistry, Bangkok, Thailand	National	MPCST, Bhopa	2018	https://www.srisatya saiedubpl.org/NAA C/PDFs/Criteria%20 3/3.1.3%20teacher s%20receiving%20 fellowship%20or%2 Ofinancial%20supp	
Dr. Varsha Saxena	Travel Grant	24,685/-	Presenting Paper at 8th IUPAC International Conference on green Chemistry , Bangkok, Thailand	National	MPCST, Bhopa	2018	saiedubpl.org/NAA C/PDFs/Criteria/20 3/3.1.3/20teacher s/20receiving/20 fellowship/20or/2 Ofinancial/20supp	
<mark>Dr. Shampa Malho</mark> tra	Travel Grant	83,979/-	Travel to China	National	UGC, New Delhi	2019	. "	
	Total-	1,58,013/-						

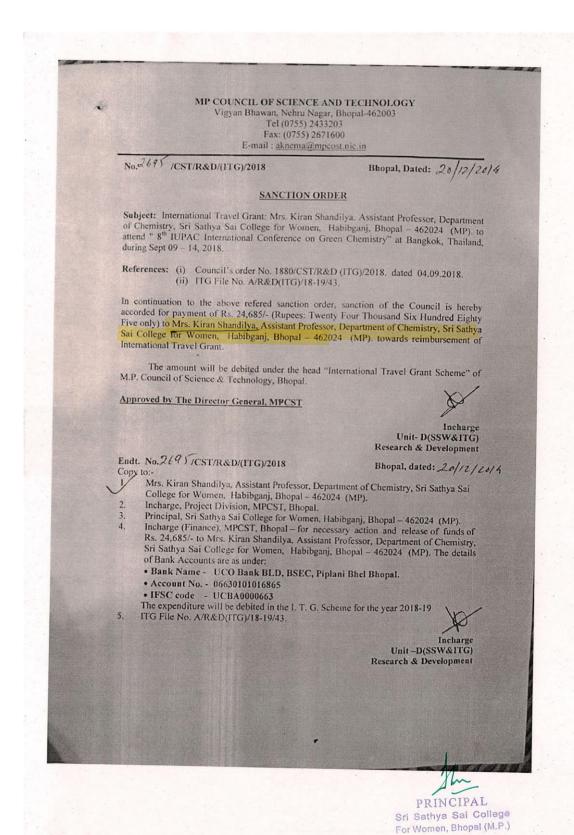












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MP COUNCIL OF SCIENCE AND TECHNOLOGY

Vigyan Bhawan, Nehru Nagar, Bhopal-462003 Tel (0755) 2433203 Fax: (0755) 2671600 E-mail: aknema@mpcost.nic.in

No.

/CST/R&D/(ITG)/2018

Bhopal, Dated:

SANCTION ORDER

Subject: International Travel Grant: Dr. Varsha Saxena, Assistant Professor, Department of Chemistry, Sri Sathya Sai College for Women, Habibganj, Bhopal - 462024 (MP). to attend " 8th IUPAC International Conference on Green Chemistry" at Bangkok, Thailand, during Sept, 09 - 14, 2018.

References: (i) Council's order No. 1881/CST/R&D (ITG)/2018. dated 04.09.2018. (ii) ITG File No. A/R&D(ITG)/18-19/42.

In continuation to the above refered sanction order, sanction of the Council is hereby accorded for payment of Rs. 24,685/- (Rupees: Twenty Four Thousand Six Hundred Eighty Five only) to Dr. Varsha Saxena, Assistant Professor, Department of Chemistry, Sri Sathya Sai College for Women, Habibganj, Bhopal - 462024 (MP), towards reimbursement of International Travel Grant.

The amount will be debited under the head "International Travel Grant Scheme" of M.P. Council of Science & Technology, Bhopal.

Approved by The Director General, MPCST

Incharge Unit- D(SSW&ITG) Research & Development

Endt. No. 2674/CST/R&D/(ITG)/2018

Bhopal, dated: 19.12.2018

Dr. Varsha Saxena, Assistant Professor, Department of Chemistry, Sri Sathya Sai College for Women, Habibganj, Bhopal - 462024 (MP).

Incharge, Project Division, MPCST, Bhopal.

Principal, Sri Sathya Sai College for Women, Habibganj, Bhopal – 462024 (MP). Incharge (Finance), MPCST, Bhopal - for necessary action and release of funds of Rs. 24,685/- to Dr. Varsha Saxena, Assistant Professor, Department of Chemistry, Sri Sathya Sai College for Women, Habibganj, Bhopal - 462024 (MP). The details of Bank Accounts are as under:

Bank Name - UCO Bank, Sector-B, Piplani, Bhopal.

 Account No. - 06630110055106 • IFSC code - UCBA0000663

The expenditure will be debited in the I. T. G. Scheme for the year 2018-19

ITG File No. A/R&D(ITG)/18-19/42.

Unit -D(SSW&ITG) Research & Development

> PRINCIPAL Sri Sathya Sai College

For Women, Bhopal (M.P.)

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UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG **NEW DELHI-110002**

FD Diary No. 3914 Dated: 22.02.2021

Dated: February, 2021

F. No.6-179/2019(TG)

The Under Secretary (FD-III) University Grants Commission Bahadur Shah Zafar Marg New Delhi-110 002

2 4 FED 7827

Subject:

Release of Grants-in-aid to Principal, Sri Sathya Sai College for Women, BHEL, Dist. Bhopal-462 001 Madhya Pradesh for the year 2020-2021 under Travel Grant Scheme

Sir/Madam,

Lam directed to convey the sanction of the University Grants Commission for payment of grant of Rs. 83,979/- (Rupees, Eighty three thousand nine hundred seventy nine only) as Travel Grant reimbursement to The Principal, Sri Sathya Sai College for Women, BHEL, Dist. Bhopal-462 001 Madhya Pradesh in respect of Dr. Shampa Malhotra, Associate Professor, Department of English to visit China from 29th July-2nd August, 2019 for the 2020-2021 (Plan) expenditure incurred during 2020-

Name of the Item	Head of Account	Grant now being Sanctioned	Grant already Sanctioned	Total Grant
Reimbursement of Travel Grant	3(A) 19 (V) 31	83,979/-	-	83,979/-

- The sanctioned amount is debitable to 3(A) 19 (V) 31 and is valid for payment during the financial year 2020-2021 only.
- The University/Institution shall ensure that all the payment of approved items to the 2. beneficiary/vendors shall be made only through the Expenditure Advance Transfer (EAT) Module
- The amount of the grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) 3. UGC on the grants-in-aid bill and shall be disbursed to and credited to The Principal, Sri Sathya Sai College for Women, BHEL, Dist. Bhopal-462 001 Madhya Pradesh through Electronic mode as per the following details:
 - Details (Name & Address) of Account Holder: The Principal, Sri Sathya Sai College for Women, BHEL, Dist. Bhopal-462 001 Madhya Pradesh
 - Account No: 06630100005241
 - Name & address of Bank branch: UCO Bank, Piplani, Bhopal-462 022
 - MICR Code: 462028005 d.

TRACK ID: MPCOGN11415

- IFSC Code: UCBA0000663
- Type of Account: Saving Bank
- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed Performa submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants 5.

which shall be utilized only on the approved items of expenditure. 6

The University / Institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2017 and instructions/guideline there under from time to time.

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- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.
- 8. The assets acquired wholly for substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grants was given without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.

A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed Performa.

10. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned / paid. In case of non-utilization/part utilization thereof, simple interest @ 10% per annum, as amended from time to time on the unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.

11. The University / Institution shall follow strictly the Government of India / UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and

The University / Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the University). 12. Official Purposes of the Union) Rules, 1976 etc.

13. The sanction is issued in exercise of the delegation of powers vide UGC Order No. 130/2013 [F.No. 10-11/12 (Admn. IA & B)] dated 28/5/2013.

14 The University /Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009.

The University / Institution shall take immediate action for its accreditation by National 15. Assessment & Accreditation Council (NAAC).

The accounts of the University / Institution will be open for audit by the Comptroller & Auditor

16. General of India in accordance with the provisions of General Financial Rules, 2017.

17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.

Funds are available under the scheme. 18.

- This issues with the concurrence of F.A vide Diary No.100186 dated 13.01.2021.
- This issues with the approval of Chairman vide Diary No.54243 dated 14.01.2021. 20.

Yours faithfully.

(Shashi Malik) Under Secretary

Copy forwarded for information and necessary action for:-

- /The Registrar, Barkatullah Vishwavidyalaya, Hoshangabad Road, Bhopal-462 026
- The Principal, Sri Sathya Sai College for Women, BHEL, Dist. Bhopal-462 001 Madhya
- 3. Dr. Shampa Malhotra, Associate Professor, Department of English, Sri Sathya Sai College for Women, BHEL, Dist. Bhopal-462 001 Madhya Pradesh
- 4. Office of the Principal General of Audit, Central Revenues, AGCR Building, I.P. Estate, New Delhi,
- 5. The Accountant General, Govt. of Madhya Pradesh, Bhopal.
- 6. Guard File.

(Daisy Sobti) Assistant













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GREEN CHEMISTRY

Certificate of Oral Presentation

Presented to

Kiran Shandilya

Qualitative and Quantitative Phytochemical estimation of flower extract of Spathodea campanulata in different solvents

8th IUPAC International Conference on Green Chemistry 2018

"Green for Sustainable Growth: Chemistry, Scaling-Up, Economic, Regulation, Innovation, and Education"

9th - 14th September 2018

Shangri-La Hotel, Bangkok, Thailand

Warnyuth Sajomsang
Dr. Warayuth Sajomsang

Secretary General
8th IUPAC International Conference
on Green Chemistry

Prof.Supawan Tantayanon

Chair of the organizing committee 8th IUPAC International Conference on Green Chemistry









Endorsed by





Certificate of Oral Presentation

Presented to

Varsha Saxena

Microwave assisted extraction and phytochemical analysis of Acacia Arabica bark: Greener perspective

> 8th IUPAC International Conference on Green Chemistry 2018

"Green for Sustainable Growth: Chemistry, Scaling-Up, Economic, Regulation, Innovation, and Education"

9th - 14th September 2018

Shangri-La Hotel, Bangkok, Thailand

Warayuth Sajomsong

Dr. Warayuth Sajomsang Secretary General 8th IUPAC International Conference on Green Chemistry

Prof.Supawan Tantayanon

Chair of the organizing committee 8th IUPAC International Conference on Green Chemistry









IUPAC INTERNATIONAL CONFERENCE ON GREEN CHEMISTRY

Chap Confrence proceed

PROCEEDINGS

September 9-14, 2018

Shangri-La Hotel, Bangkok, Thailand

Microwave Assisted Extraction and Phytochemical Analysis of Acacia arabica Bark: Greener Perspective

Dr. Varsha Saxena*, Dr. Neena Arora

Department of Chemistry Sri Sathya Sai College for Women, Bhopal, INDIA Email: sinhavarsha@yahoo.com

The aim of this study is to optimize the extraction process for Acacia arabica bark which can be a source of potential therapeutic drugs. The most commonly used techniques are maceration, soxhlet extraction and microwave assisted extraction. This study demonstrates the extraction and phytochemical analysis of bark of A. arabica using all three techniques in three different solvents. The solvents used were methanol, ethyl acetate and methanol-water mixture. Phytochemical analysis of extract in these solvents has been evaluated to compare the effect of solvent and extraction technique. TFC, TPC and TTC of methanolic extract obtained from all three methods were determined. In microwave extraction technique TPC, TFC and TTC were found to be 83mg/gm equivalent to Gallic acid ,33mg/gm equivalent to Rutin and 208 mg/gm equivalent to Atropine respectively. This is almost double the quantity obtained by conventional method. Methanolic extract by microwave method showed high free radical scavenging activity as evidenced by low IC₅₀ value in DPPH (40.29µg/ml). The results indicate that best extraction of phytochemicals can be achieved using methanol as solvent under microwave irradiation as the process gets accelerated and requires lesser use of solvent. This technique is therefore time efficient as well as environmental friendly.

Key Words: microwave assisted extraction, soxhlet, acacia, bark, antioxidant activity

1. Introduction

Plants have long been established as rich source of medicines which have made significant contribution to human health and general well being. Since time immemorial herbal medicines or plant extracts have been used for treatment of various disorders. India has been blessed with rich flora which have been serving as source of traditional medicines. A. arabica, commonly known as 'babool' or 'kikar' is a medium sized tree belonging to the family Leguminosae and the sub-family Mimosoideae. Babool is seen all over the Indian subcontinent upto an altitude of 3000 meter. It is called Indian gum-Arabic tree. It is very commonly found in the forest Madhya Pradesh, Chhattisgarh, Jharkhand, Uttar Pradesh and Rajasthan. This plant has impressive history of medicinal usage specially for the treatment of skin,

stomach and tooth problems. It has been recognized worldwide as a multipurpose tree.

Phytochemicals naturally are occurring chemicals in medicinal plants, leaves, vegetables and roots that have defense mechanism against various diseases.2,3,4 Phytochemicals are primary and secondary compounds. A. arabica bark contains several phytochemicals like catechin, epicatechin, dicatechin, epigallo catechin, gallic acid & its methyl ester, quercetin, catechol, epicatechol, leucocyanidine gallate, sucrose and tannin. 5,6

The bark, due to its large quantity of tannin, is a powerful astringen. Its decoction is largely used as a gargle and mouth wash in cancer and syphilitis. The juice of the bark mixed with milk is dropped into the eye in



















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A pre-conference Workshop on

"Integrating Green Chemistry in Higher Education"

9th September 2018

Maha Makut Building Chulalongkorn University, Bangkok, Thailand

Warayuth Sajomsang

Dr. Warayuth Sajomsang
Secretary General
8th IUPAC International Conference
on Green Chemistry

Prof.Supawan Tar

Prof.Supawan Tantayanon
Chair, 8th IUPAC International Conference
on Green Chemistry
Project Co-Ordinator of FACS

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on Green Chemistry

Prof Sungwan Tantava

Prof.Supawan Tantayanon
Chair, 8th IUPAC International Conference
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On 18-19 July 2019 Dr. Renu Mishra attended a International Conference on Pharmacology & toxicology in Zuric, Switzerland as member organizing committee. She also presented a poster and was awarded with **Best Poster award** in International Conferences (Switzerland).

