

Government of Maharashtra



Government College of Arts & Science, Aurangabad (M.S)

(Established in 1923)

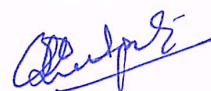
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List of Research Patent

| Sr. No | Name of the Awardee/Faculty member | Title of an award/Registration  | Awarding Agency  | Year |
|--------|------------------------------------|---|--|------|
| 1      | Dr. Sayyed Abrar Ahmed             | Chemical fractionation and bioavailability of selected heavy metals in sediments of river | The Patent Office Journal No. 23/2022                    | 2022 |
| 2      | Dr.S.B. Dongre                     | Insulin Injector Device   | The Patent office, Government of India, Dated 16/11/2022 | 2022 |
| 3      | Dr.S.B. Dongre                     | Insulin Injector Device   | Australian Government, IP Australia                      | 2022 |
| 4      | Dr.S.B. Dongre                     | Device to Detect Homeostatic Function in Animals  | The Patent office, Government of India, Dated 16/12/2022 | 2022 |



  
Dr. R. H. Satpute

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पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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निर्गमन सं. 23/2022  
ISSUE NO. 23/2022

शुक्रवार  
FRIDAY

दिनांक: 10/06/2022  
DATE: 10/06/2022

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE



(54) Title of the invention : CHEMICAL FRACTIONATION AND BIOAVAILABILITY OF SELECTED HEAVY METALS IN SEDIMENTS OF RIVER

(51) International classification :A61K0033340000, A62D0101430000, B09C0001080000, A23L0033105000, A61K0031702000

(86) International Application No :NA  
 Filing Date :NA

(87) International Publication No : NA

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 Filing Date :NA

(62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
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 Address of Applicant :Vice Principal, Head and Associate Professor, Department of Chemistry Poona College of Arts, Science and Commerce, Camp, Pune Pin:411001 State: Maharashtra Country: India -----

**2)Dr. Shaikh Shafikh Mahebob**  
**3)Dr. Shaikh Faazil Shaikh Raheem**  
**4)Dr. Chavre Bhagwat Walmik**  
**5)Dr. Syed Abrar Ahmed**  
 Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
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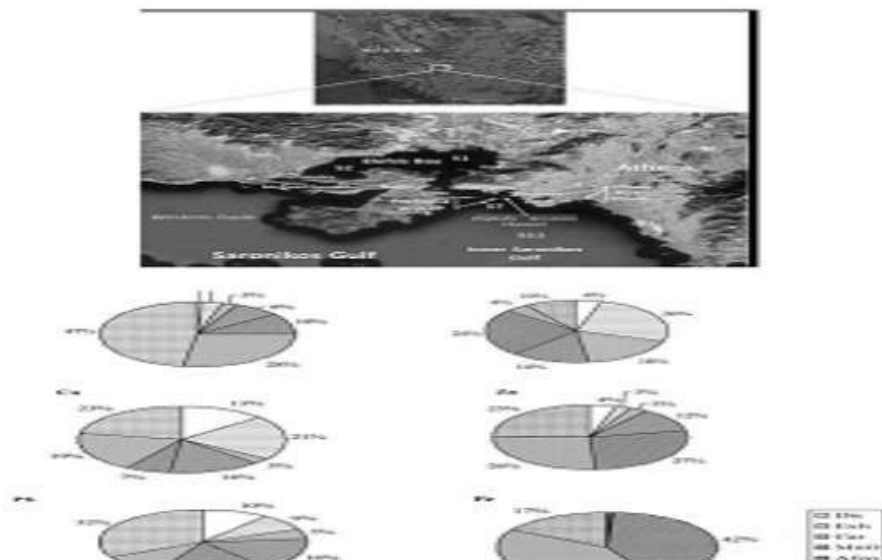
**2)Dr. Shaikh Shafikh Mahebob**  
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**3)Dr. Shaikh Faazil Shaikh Raheem**  
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**4)Dr. Chavre Bhagwat Walmik**  
 Address of Applicant :Assistant Professor, Head, Department - Department of Botany MVP Samajs, Arts, Commerce and Science College, Nandgaon, Dist. Nashik Pin: 422206 State: Maharashtra Country: India -----

**5)Dr. Syed Abrar Ahmed**  
 Address of Applicant :Assistant Professor Department of Botany Government college of Arts and Science, Kile Ark, Aurangabad. Pin: 431001 State: Maharashtra Country: India -----

(57) Abstract :  
 Chemical Fractionation and Bioavailability of Selected Heavy Metals in Sediments of River Abstract: The chemical fractionation of metals such as lead, cobalt, and chromium found in soils surrounding India's Lakwa oil field was investigated via sequential extraction. This is true for each of the seven heavy metals examined. According to the study, the most critical aspect is the residual percent. For non-residual fractions, the most critical connection between metals and Fe-Mn oxides is that they are most closely related to this group. Copper, cadmium, zinc, and lead are the top three most toxic heavy metals that can have a detrimental effect on human health. The carbonate fraction contains a greater concentration of lead (Pb) than other metals. This is true in the winter as well as the summer. Due of lead's toxicity, it may be hazardous to the environment; therefore The exchangeable fraction contains modest metal concentrations, indicating that these metals are not very bioavailable. Soils and metal fractions may not necessarily exhibit the same physicochemical properties. When compared to recognized criteria of normal abundance and geological background, local mean metal levels are two to four times greater than in the past. These statistics are consistent with a healthy population of the species. The way metals interact with the earth at this place may be significantly influenced by human actions.





ORIGINAL

मूल/No : 127411



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GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र  
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 375714-001  
तारीख / Date : 16/12/2022  
पारस्परिकता तारीख / Reciprocity Date\* :  
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **DEVICE TO DETECT HEMOSTATIC FUNCTION IN ANIMALS** से संबंधित है, का पंजीकरण, श्रेणी **24-01** में 1.Dr. Sangeeta Bhimrao Dongre 2. Dr. Dhananjay Shivajirao Patil 3.Dr. Prakash Tanaji Wankhedkar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-01** in respect of the application of such design to **DEVICE TO DETECT HEMOSTATIC FUNCTION IN ANIMALS** in the name of 1.Dr. Sangeeta Bhimrao Dongre 2. Dr. Dhananjay Shivajirao Patil 3.Dr. Prakash Tanaji Wankhedkar.

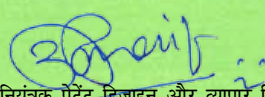
डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



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PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 25/01/2023

  
महानियंत्रक पेटेंट डिजाइन और व्यापार चिह्न  
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्त्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

\*The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.



Australian Government

IP Australia

# CERTIFICATE OF REGISTRATION DESIGN

**Design number:** 202215235

The Registrar of Designs has registered the design represented on this certificate and certifies that the following particulars have been entered in the Register of Designs.

**Name and address of owner(s):**

Dr. Prakash Tanaji Wankhedkar of Assistant Professor, Department of Zoology M.J.M. Arts, Commerce and Science College Karanjali, Tal. Peth, Dist. Nashik Maharashtra 422208 India

Dr. Shaikh Hasim Mohammed Isak of Assistant Professor Head of Department of Zoology Smt.N.N. C. College Kusumba Dhule Maharashtra 424302 India

Dr Sangeeta Bhimrao Dongre of Assistant professor Department of Zoology Government College of Arts and Science Aurangabad Maharashtra 431001 India

Dr. Yusuf Ebrahim Patel of Assistant Professor Department of Zoology Iqra Education Society's H. J. Thim College of Arts and Science Mehrun Jalgaon Maharashtra 425001 India

Dr. Prashant Kantilal Bagul of Research Scholar Department of Zoology Karm. A.M. Patil Arts, Commerce and Science College, Pimpalner Maharashtra 424306 India

**Product to which the design is registered:**

INSULIN INJECTING DEVICE

**Name of designer(s):**

Dr. Prakash Tanaji Wankhedkar, Dr. Shaikh Hasim Mohammed Isak, Dr Sangeeta Bhimrao Dongre, Dr. Yusuf Ebrahim Patel and Dr. Prashant Kantilal Bagul

**Date of filing:**

2 September 2022

**Date of registration:**

25 October 2022

**Term of initial registration:**

Five years commencing on 2 September 2022

**Statement of newness and distinctiveness:**

The features of Shape and Configuration of the INSULIN INJECTING DEVICE shown in the accompanying representations are considered to be new and distinctive.

NOTE: This Design Registration cannot be enforced unless and until it has been examined by the Registrar of Designs and a Certificate of Examination has been issued. See sections 73(3) and 77(3) of the Designs Act 2003, set out on the reverse of this document.



Dated this 28<sup>th</sup> day of October 2022

Registrar of Designs

**DESIGNS ACT 2003**

The Australian Designs Register is the official record and should be referred to for the full details pertaining to this IP Right.



ORIGINAL

मूल/No : 130123



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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र  
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 374252-001  
तारीख / Date : 16/11/2022  
पारस्परिकता तारीख / Reciprocity Date\* :  
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **INSULIN INJECTOR DEVICE** से संबंधित है, का पंजीकरण, श्रेणी **24-02** में 1.Dr. Prakash Tanaji Wankhedkar 2. Dr. Shaikh Hasim Mohammed Isak 3.Dr Sangeeta Bhimrao Dongre 4.Dr. Yusuf Ebrahim Patel 5.Dr. Prashant Kantilal Bagul के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-02** in respect of the application of such design to **INSULIN INJECTOR DEVICE** in the name of 1.Dr. Prakash Tanaji Wankhedkar 2. Dr. Shaikh Hasim Mohammed Isak 3.Dr Sangeeta Bhimrao Dongre 4.Dr. Yusuf Ebrahim Patel 5.Dr. Prashant Kantilal Bagul.

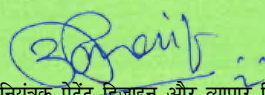
डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



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निर्गमन की तारीख/Date of Issue : 02/03/2023

  
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\*The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.