



"Social Transformation Through Dynamic Education"

Bharati Vidyapeeth's



Founder

**Dr. Patangrao Kadam**

M.A., L.L.B., Ph.D.

Principal

**Dr. D. G. Kanase**

M.Sc., Ph.D.

**Dr. Patangrao Kadam Mahavidyalaya, Sangli**

(Affiliated to Shivaji University)

P.O. Box No. 74, Sangli - 416 416 Ph. : 0233-2535229, Fax: 2535993

Email : [bv.dpkms@bharatividyaapeeth.edu](mailto:bv.dpkms@bharatividyaapeeth.edu)

Website : [www.bvdpkmsangli.edu.in](http://www.bvdpkmsangli.edu.in)

Founder Hon'ble Dr. Patangrao Kadam

Accredited with 'B<sup>++</sup>' Grade  
by NAAC (3<sup>rd</sup> Cycle)

### Extension activities during the academic year 2022-2023

Sr. No.	Name of the activity	Academic year	Extension element within the activity
1	Corona Vaccination Drive	2022-23	The drive for preventing Covid-19 through vaccination was organized
2	Celebration of 'Birth Anniversary of Mahatma Gandhi and LalBahadurShastri'	2022-23	Cleanliness activities on the occasion of the eve were organized
3	Blood Donation Camp	2022-23	Teaching and non-teaching faculty along with students donated blood and it was handover to the blood bank for the use of needy patients
4	National Voters Day	2022-23	Participation in voting process for maintaining Indian democracy and related documentary needs for inclusion of voters in the process were explained
5	Caste Validity Campaign	2022-23	Proper representation of the socially neglected groups requires validation of caste and hence campaign was organized for explaining procedural aspects of the caste validity
6	Women Empowerment and Cyber Crime	2022-23	The Maharashtra Police representatives explained the means for preventing cybercrime against women
7	Diwali for Orphans	2022-23	The institute offered food, clothes and firecrackers to orphans for celebration of Diwali festival
8	World AIDS Day	2022-23	Awareness about contraceptives for the prevention of AIDS were projected through posters and slogan rally

9	Portability Testing of Municipal Water Supply in Sangli City	2022-23	From different localities of Sangli City water samples as supplied through outlets of Municipal water supply connection were collected and tested for potability. The findings reflected presence of disease causing organisms in few areas and thus the activity helped to detect underground water pollution through broken pipes. The activity was run by the students of Microbiology Department. The findings were presented in the conference which was visited by ministers and representatives of local governing bodies
10	Air Sampling For Monitoring Air Pollution Around Common Biomedical Waste Facility Centre (CBMWFC) Govandi, Mumbai	2022-23	This activity is run by the post graduate students of Microbiology Department and it has helped the judiciary system in the PIL No. 33884/2022
11	Intervention Public Interest Litigation No. 33884/2022 Filed At Bombay High Court	2022-23	In this litigation, the institute presented data about air pollution in Govandi, Mumbai due to operative cycles of Bombay Municipal Common Biomedical Waste Facility Centre (CBMWFC)



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## Corona Vaccination Drive

Corona Vaccination drive was conducted at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli. This drive was conducted by NSS Unit on 05<sup>th</sup> May, 2022. Health workers from Sangli, Miraj & Kupwad Municipal Corporation vaccinated students, teaching and non-teaching staff. On this occasion Prin. Dr. D. G. Kanase was present. 42 students were present.

  
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### The Birth Anniversary

The Birth Anniversary of Mahatma Gandhi and Lal Bahadur Shastri were celebrated at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli on 2<sup>nd</sup> October, 2022. Prin. Dr. D. G. Kanase worshiped on the image of Mahatma Gandhi and Lal Bahadur Shastri. The inauguration of cleanliness move was done by Prin. Dr. D. G. Kanase. The college campus was cleaned jointly with Nehru Yuva Kendra, Sangli. On this occasion all teaching staff and NSS 41 volunteers were present.



  
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Est'd 1994  
Celebrating



BHARATI VIDYAPEETH

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## Blood Donation Camp

Poster presentation and blood donation camp was organized on behalf of the National Service Scheme and Social Science Department on 10<sup>th</sup> August, 2022. Poster on "Work of Revolutionaries in freedom struggle" was unveiled by Dr. D. G. Kanase and blood donation camp was inaugurated by Prin. Dr. D. G. Kanase. On this occasion Prof. T. R. Sawant In- charge of Art's and Commerce faculty, all the teaching faculty and students were present. It was Bharati Hospital Research Center that supported specially. 40 students were participated in this event.





  
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Estd. 1964

Celebrating



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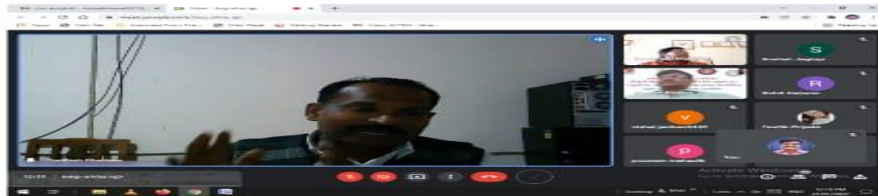
Principal


**Dr. D.G. Kanase**  
M.Sc., Ph.D.


## National Voters Day

An online webinar on the occasion of 'National Voters Day' was organized by NSS department at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli on 25<sup>th</sup> January, 2022. 47 students and teaching faculty were present online. The chief guest of the programme, Prof. Dr. S. K. Khadase from K. B. P. College Islampur, guided on the importance of democracy and if it wanted to keep alive every person has to vote at the time of voting day. Prin. Dr. D. G. Kanase presided over the function.

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## Caste Validity Campaign

A workshop on 'Caste Validity' was jointly organized by NSS department and Social Justice and Special Assistance Department, District Caste Certificate Verification Committee at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli on 13<sup>th</sup> April, 2022. Many students were present for this event. Dr. Babasaheb Ambedkar's image was worshipped with offering flowers. Mr. Khushal Gaikwad was the chief guest. He guided students with presenting PPT on how to apply for caste validity including all documents. Prin. Dr. D. G. Kanase was chairperson for this programme. 62 students were present.



  
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"Social Transformation Through Dynamic Education"

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Estd. 1964  
Celebrating



and Beyond

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## Women Empowerment and Cyber Crime

A lecture on "Women Empowerment and Cyber Crime" was organized at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli on 12<sup>nd</sup> August, 2022. Mr. Sagar Patil and Mrs. Swati Patil were chief guests. Both of them guided the students. For this activity 49 students were present.



  
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## Diwali for orphans

As a social commitment, Handful of grain help event was organized at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli on 21<sup>st</sup> October, 2022. This program was organized for Jijau Boys and Girls Hostel Kole Tal. Karad, Dist. Satara. On this occasion these orphan boys and girls were given vital materials that had been collected from NSS volunteers, teaching and non-teaching staff. Prin. Dr. D. G. Kanase, Mr. Sameer Nadaf, founder of Jijau Boys and Girls Hostel Kole, Dr. Vikas Awale, Dr. Rupali Kamble, Prof. Sulabha Tambade, all teaching faculty members and 68 students were present for the program.





  
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## World AIDS Day

World AIDS Day was celebrated by making procession in Sangliwadi. This event was organized by NSS department at Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli on 1<sup>st</sup> December, 2022. Many students and teachers were participated in this rally. Prin. Dr. D. G. Kanase said that it is the need of time to aware the students and society about AIDS. A message was given to the society about AIDS. 94 students were present.



  
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# Potability testing of Municipal Water Supply in Sangli City presented in the conference





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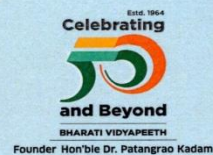
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## FIELD TOUR DEPARTMENT OF MICROBIOLOGY 2022-23

Department of Microbiology, Dr. Patangrao Kadam Mahavidyalaya organized 'Field Tour' on 19<sup>th</sup> December 2022. It was participated by M. Sc. II students of the department. Notion of field tour was addressing the issue of pollution by collecting air samples from the territory of 'Municipal Corporation Greater Mumbai' Govandi. The citizens in residing in Mumbai plead Mumbai High Court to address the issue of pollution raised due to 'Biomedical Waste treatment Plant' run at Govandi. It was a claim by the citizens through PIL No. 33884/2022 that the 'Municipal Corporation Greater Mumbai' Govandi releases disease causing organisms during incineration of biomedical waste. To verify the claims, the Department of Microbiology organized field tour and M.Sc. II candidates completed the air sampling in the circumference of about 5 km from the source.






E



The samples collected were further analysed for presence of pathogens

  
 (Dr. D. G. Kanase)  
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 Sangli - 416416 (Sangliwadi)

## Study of Air Quality in the Vicinity of Common Biomedical Waste Treatment Facility Center of Govandi, Mumbai

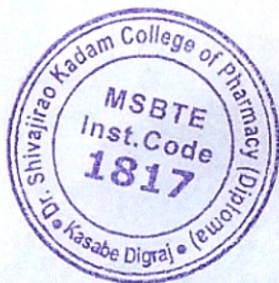
Vikas Shelake, Ashutosh Yadav, Namrata Dongare, Shivani Kshirsagar, Bharat Ballal

Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli

### Abstract

Present researcher and co-authors of the paper, came across with 'Public Interest Litigation' filed by 'Govandi New Sargam Welfare Society', at High Court of Judicature at Mumbai. The litigation demanded for shifting of 'Common Biomedical Waste Facility' of municipal corporation greater Mumbai located at Govandi. Original petition dealt with the emission of toxic gases from the biomedical waste facilitated centre.

Considering survival and of 'Droplets' and 'Droplet nuclei' in air dispersed from treatment plant, authors of this research paper visited the area in the vicinity of the 'Biomedical Waste Treatment Plant'. Air sampling was carried out, for testing presence of disease causing bacteria and fungi in the air. The air samples were collected at the distance of 50 m to 2 km from the incinerator plant including nearby housing societies. Controls were kept for validation of the experiment. Our observation is that 'BMC's Biomedical Waste Treatment Incinerator Govandi Mumbai' emits the disease causing organisms, including *Mycobacterium tuberculosis spp*, *Staphylococcus spp*, *Streptococcus spp*, *Pseudomonas spp*.



*Pranav*  
Dr. P. K. PAWAR  
Organising Secretary.





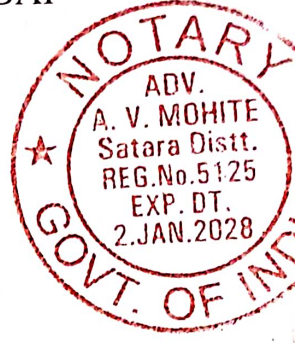
IN THE HIGH COURT OF JUDICATURE AT MUMBAI  
ORDINARY ORIGINAL CIVIL JURISDICTION

INTERIM APPLICATION NO. OF 2023

IN

(L)

PUBLIC INTEREST LITIGATION NO. 33884 OF 2022



In the matter of the Interim relief in the

above mentioned Public Interest Litigation

(L)  
No. 33884 of 2022

Dr. Bharat Bajarang Ballal )

Age: 53 Yrs, Occupation – Associate Professor,

Dr. Patangrao Kadam Mahavidyalaya, Sangli )

R/at. 69/3, Shukrawar Peth, Karad,

Dist Satara, Maharashtra, PIN 415110

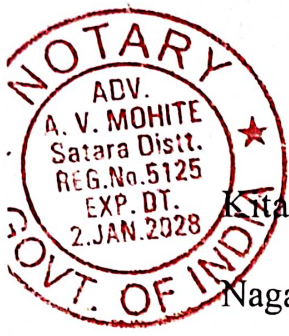
)...Applicant

In the matter between

Govandi New Sangam Welfare Society, )

Having Registration No. G.B.B.S.D. 380/21, )

Through its President. Qtr. Shaikh Faiyaz Alam )



Khabullah & having its office at Kamla Raman )

Nagar, Baiganwadi, Govandi, Mumbai — 400 043 )

Email ID newsangamwelfaresociety@.com )

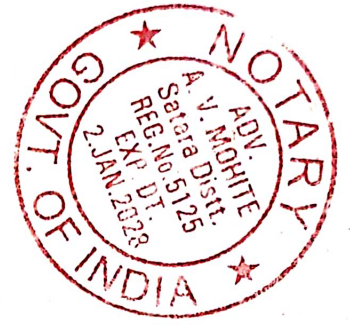
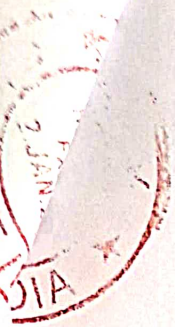
Contact No +91 – 8898685354 )

PAN No. AAHAG1007F )

Annual Income Rs 15000/- )

Versus

1. The State of Maharashtra )  
Through its Principal Secretary, )  
To the ministry of Environment, )  
Mantralaya, Mumbai 400 032 )
2. Maharashtra Pollution Control Board, )  
having its office at Kalpatru Point, )  
2 – 4 Floor, Opp. Cine Planet Cinema, )  
Sion Circle, Sion (East). Mumbai 400 022 )  
Regional Officer, Mumbai, )  
Maharashtra Pollution Control Board, )  
having its office at Kalpatru Point, )



2 – 4 Floor, Opp. Cine Planet, Sion Circle. )

Sion (East), Mumbai 400 022 )

3. Municipal Corporation of Greater Mumbai, )

Through its Solid Waste Department, )

Having its office at Mahapalika Marg )

Annexe Building, Opp. CST Railway )

Station, Fort, Mumbai – 400 001 )

4. SKIS Erivoclean Private Limited )

A company duly incorporated under the )

provisions of the Companies Act 1956. )

having its office at Deonar Dumping )

Ground Ghatkopar Mankhurd Link Road )

Govandi (West) Mumbai 400 043 )

5. Central Pollution Control Board )

Parivesh Bhavan, CBD-cum-Office )

Complex 1, Arjun Nagar East, )

New Delhi - 110 032)

...Respondents



THE HON'BLE CHIEF JUSTICE AND

OTHER PUISNE JUDGES OF THIS

HON'BLE HIGH COURT

THE HUMBLE PETITION OF

THE PETITIONER ABOVENAMED

MOST RESPECTFULLY SHEWETH:

1. The Applicant is a citizen of India domiciled in the State of Maharashtra who is an Associate Professor in the subject of Microbiology who is serving with as Associate Professor in Dr. Patangrao Kadam Mahavidyalaya Sangli, Maharashtra, India and is a Scientist and Academician with 21 filed patents, 09 approved IPR's and 65 Publications in his credit. He has already worked with the Bharati Vidyapeeth Deemed To Be University, Pune project related to 'Common Biomedical Waste Facility' and has significant findings during his laboratory and field work.

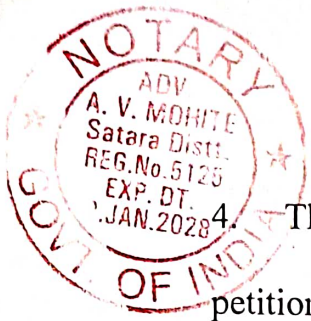
2. The Applicant is a meritorious academician and scientist with 65 cumulative publications and 21 filed patents with 09 approved 'Intellectual Property Rights' including one international patent. He is honored with 17 awards from scientific community and society





and his research has witnessed for betterment of society including his research for HIV/AIDS and Biological Incinerator. Copy of the curriculum vitae and one of the patents registered in the name of the Petitioner are hereto annexed as **Exhibit A and B**.

3. The Applicant states that the invention of the Applicant regarding 'Incinerator for Biological Waste' with unique microbial filters is useful for preventing spread of harmful pathogens like corona virus (SARS – COV – 2). Similarly the invention regarding immunomodulators has benefitted HIV infected individuals and the product has been approved by the Food and Drug Authority, State of Maharashtra with the brand names "Cytonini" and 'Cytomaw'. The Petitioner craves leave to refer and rely upon the said certificate of the Food and Drug Authority, State of Maharashtra. Recently in international conference on 'Emerging Trends in Combating Multi Drug Resistant Superbugs', his research paper entitled 'Evaluation of Air Quality During Combustion of used and disposed sanitary napkins in the patented biological incinerator' has bagged award and the certificate is enclosed as **Annexure-** This certificate reveal his scientific authority to address present pending issue.

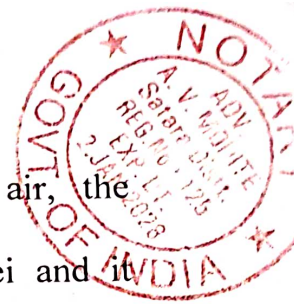


The Applicant states that the Applicant came across with the petition filed by 'New Sargam Welfare Society' indicating emission of toxic gases, furons, dioxins from BMC's Biomedical Waste Treatment Incinerator, Govandi as primary cause of public health crisis. In the petition the original applicants have claimed for having correlation with rising Tuberculosis cases in the vicinity.

5. The Applicant has already worked with the project related to 'Common Biomedical Waste Facility' and has expertise in the said subject of disposal of Biomedical waste.

6. The Applicant states that there is no co - relation between toxic gases emitted from BMC's Biomedical Waste Treatment Incinerator, Govandi, Mumbai and cases of Tuberculosis cases in the vicinity. The disease 'Tuberculosis' is caused by bacterium named Mycobacterium tuberculosis and not by any toxic gases as claimed in the petition, but there is direct co - relation between emission of pathogenic organisms in the environment from BMC's Biomedical Waste Treatment Incinerator, Govandi, Mumbai. During incineration of hospital waste the pathogens get expelled in the air in the form of 'Droplet' (Droplets are pathogenic microorganisms which appears in air along with moisture and which maintains the size of 10 microns or more) and Droplet nuclei






(When moisture get removed from Droplets in the air, the remaining infective pathogen is called as Droplet nuclei and it always maintain the size below 10 microns). In the form of "Droplet Nuclei" such pathogens remain for long time in air (Few remain for 6 months) and get transmitted to nearby community through air currents. (Practically those can cross the distance of 2 to 3 kms or more).

7. The Applicant states that the Applicant along with his 2 post graduate students of Microbiology visited the area around the BMC's Biomedical Waste Treatment Incinerator, Govandi, Mumbai and have done a detailed study of the said issue. The team collected Air samples on Growth medias at various distance intervals of 50 meters to 2 Kms from the incinerator plant including nearby housing societies. The sampling was carried out using control plates. The plates were incubated and organisms grown on plates were collected for identification. Following observations are noted;

➤ BMC's Biomedical Waste Treatment Incinerator, Govandi, Mumbai emits the disease causing organisms including Mycobacterium tuberculosis, Staphylococcus, Streptococcus, Pseudomonas and others (Still further screening is going on)

The air quality in the close vicinity is very poor as revealed by very high number of microbial colonies on petriplates (Images are attached) and there is a great threat to residents of the area.

➤ The incinerator details as available indicate that, the incinerator has no provision to trap the pathogens.

➤ The pollution control board issued the guidelines for biological waste incineration in the context of Section 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Bio-Medical Waste (Management and Handling) Rules, 1998 and further amendments made thereof, the Central Government vide G.S.R. 343(E) dated 28<sup>th</sup> March, 2016 published the Bio-medical Waste Management Rules, 2016 and revised draft of April 2017.

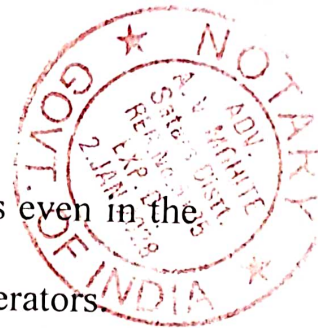
➤ Due to lack of scientific knowledge, all above guidelines have neglected the emission of pathogens in air and keep the prejudice that manipulation of very high temperature using 2 chambers may kill disease causing organisms. Field studies carried out have revealed the failure of 'Biological Waste Incinerators'.

8. The Applicant states that mere changing the locations of the Biomedical Waste Treatment Incinerator would not resolve the issue but there is need of amendment to the rules and develop a





process which would reduce the emission of pathogens even in the close vicinity of the Biomedical Waste Treatment Incinerators.




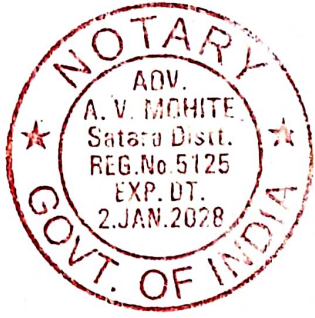
9. The Applicant states that the Biomedical Waste Treatment Incinerator need to be technically modified with microbial filters and upgraded to reduce the emission of pathogens.

**10. The Applicant prays as under;**

- a) This Hon'ble Court be pleased to allow the present Application and direct the Petitioner to add the Applicant as party Respondent to present technical and scientific details to resolve the said issue;
- b) This Hon'ble Court be pleased to allow the Applicant to submit his detailed report before this Hon'ble Court to put before this Hon'ble Court the solution to the issue of emission of pathogens from Biomedical Waste Treatment Incinerator;
- c) For such other and further order as this Court deems fit in the facts and circumstances of this case.

Advocate

  
Petitioner  
Dr. Bharat Bajrang Ballal



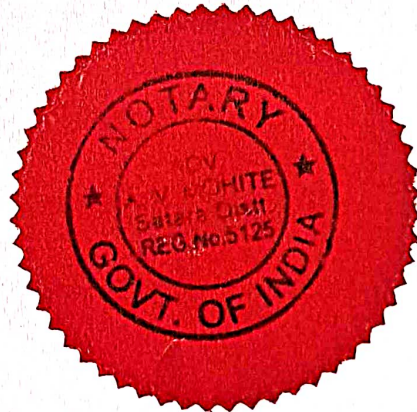
**VERIFICATION**

I, Dr. Bharat Bajrang Ballal, aged 52 yrs, Residing at 69/3, Shukrawar Peth Karad presently at Mumbai do hereby state and solemnly declare that what is stated in para no.1 to 10 is true to my own knowledge and what is stated in the remaining paras in 1 to 10 is stated on information and belief and I believe the same to be true.

Solemnly declared at <sup>MH</sup> ~~Bombay~~ <sup>MH</sup> Karad )

On this <sup>24</sup> day of <sup>March</sup> ~~August~~, 2023

...Petitioner

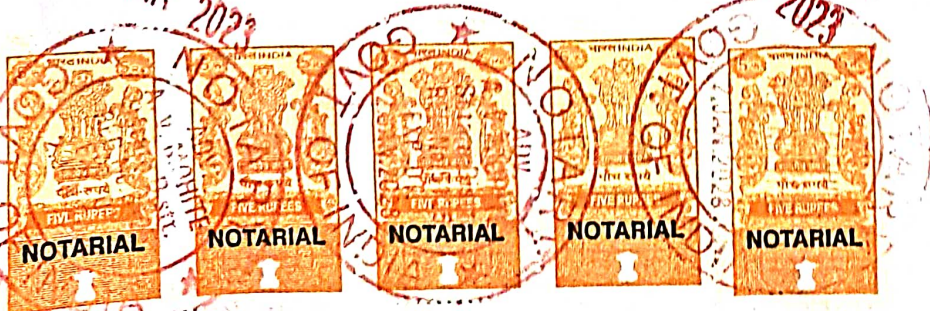


**BEFORE ME**

ADV ASHOK V. MOHITE  
NOTARY GOVT OF INDIA  
KARAD, DISTRICT SATARA  
REGD No 5125

Adv. A. A. Jadhav, Karad  
MAY 147/1985  
Advocate for the Petitioner

24 MAR 2023



NOTED & REGISTERED  
TODAY AT KARAD  
SR. No 750/2023  
DATE 24 MAR 2023