

#### Maratha Vidya Prasarak Samaj's

#### Shrimati Vimlaben Khimji Tejookaya Arts, Science and Commerce College, Nashik

Office:0253-2473132 Email: iqac@mvpsvktcollege.ac.in



(NAAC Accredited 'A' Grade with CGPA of 3.11)

(Best College Award by S.P.P.U., Pune 2023)

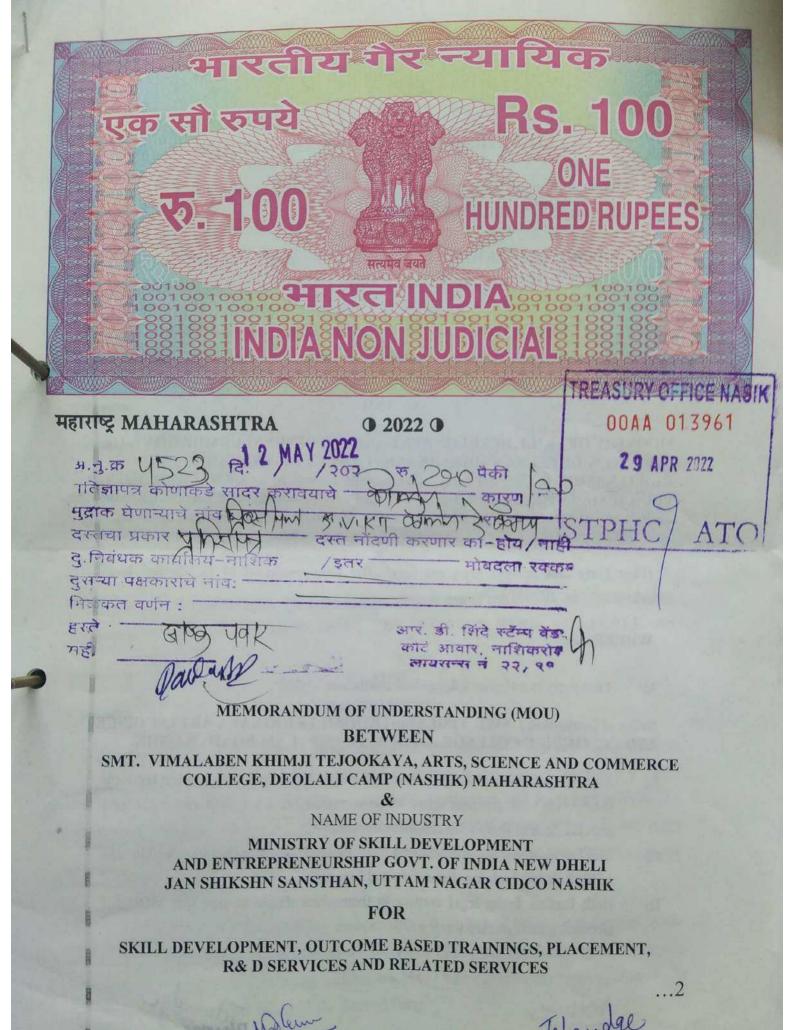


#### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

Sr.	Title of the	Name of the collaborating agency with contact details	Duration
No.	collaborative activity		
1.	Skill Development		
1.	certificate course	Jansikshan Sanstha, Uttam nagar CIDCO, Nashik	1 year
		, , ,	
2.	Tally- GST online		
	Certificate Course	Rojagar AVM Career Margdarshan Kendra, nashik	4 month
	Self Help Group:		
3.	Best practice of		
	Economics	Madhusudan Swayamshayata Bachat Gat Dastgir	
	Department	Baba Road Deolali	3 Year
4	Diploma In Baking		
	and Finance Course	Godavari Corp. Bank Nashik	3 Year
		Research Center and Department of Chemistry,	
5.		M.V.P. Samaj's G. M. D Arts, B. W. Commerce and	
	Research Paper	Science College, Sinnar, Nashik, 422103,	
	Publication	Maharashtra, India	1 year
		Department of Chemistry, S.S.R College of Arts,	
6.		Commerce & Science College, Savitribai Phule Pune	
	Research Paper	University, Silvassa, 396 230, Dadra and Nagar	
	Publication	Haveli (UT), India	1 year
7		Department of Chemistry, K.R.T. Arts, B.H.	
		Commerce, and A.M. Science College, Savitribai	
	Research Paper	Phule Pune University, Nashik 422002 Maharashtra,	
	Publication	India	1 year
8	PH.D Course work		
	lecture	KTHM College Nashik	1 year



PRINCIPAL Smt. Vimlaben Khimji Tejookaya. Arts, Science & Commerce College Deolali-Camp, (Nasik)



PRINCIPAL
Smt. Vimlaben Khimji Tejcokaya,
Arts, Science & Commerce College,
Deolali-Camp, (Nasik)

Director
Jap Shikahan Sanathan, Nashik

#### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 29<sup>TH</sup> MARCH 2022- between

SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS ,SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP, LAM ROAD, NASHIK, the First Party represented herein by its Name of Competent Authority / Representative (herein after referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors — in-office, administrators and assigns).

#### AND

MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP GOVT. OF INDIA NEW DHELI JAN SHIKSHN SANSTHAN UTTAM NAGAR

CIDCO, NASHIK the Second Party, and represented herein by its Zonal / Divisional Head, PRINCIPAL, (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party') as

#### WHERE AS:

A) First Party is a Higher Educational Institution Named:

Name of Institution: SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS, SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP, LAM ROAD, NASHIK.

- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

PRINCIPAL
Smt. Vimiaben Khimji Tejcokaya,
Arts, Science & Commerce Cellege,
Deolali-Camp, (Nasik)

Director
Jas Shihahan Sanathan, Nashik

- E) MINISTRY OF SKILL DEVELOPMENTAND ENTREPRENEURSHIP
  GOVT. OF INDIA NEW DHELI JAN SHIKSHN SANSTHAN, UTTAM
  NAGAR CIDCO NASHIK the Second Party is engaged in Business,
  Manufacturing, Skill Development, Education and R&D Services in the fields of –
  COTTAGE INDUSTRY
  Name of Industry: JAN SHIKSHN SANSTHAN
- F) The second party is promoted by PRINCIPAL Director

  Address and background of the Company, Janshikshan Sansthan, Uttam

  Nagar, CIDCO, Nashik 422008.
- G) Give related information, its branches, and dimensional information about the industry concerned with whom the MoU is sworn.
  - Recognition reputed Institute in the training for self employment.
  - It provides guidance and hands on training on Cottege Industry
  - It also provides guidance for marketing of the products, setting up of enterprise

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS:

### CLAUSE 1

#### **CO-OPERATION**

Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

PRINCIPAL
Ans, Science and Minister Telookapa,
Deolah-samp, (Nasik)

Director
Jen Shikehan Sansthan, Nashik

The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

### CLAUSE 2 SCOPE OF THE

MoU

The budding graduates from the institutions could play a key role in technological upgradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

Curriculum Design: Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

Industrial Training & Visits: Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

Research and Development: Both Parties have agreed to carry out the joint research activities in the fields of – Skill Development and Entrepreneurship

PRINCIPAL
Smt. Vimlaben Khimji Tejookaya,
Arts, Science & Commerce College,
Deolali-Cemp, (Nasik)

Director

Jan Shibahan Sanathan, Nashik

#### Name of Industry specializations: Training & Marketing

Activities and services ....

- **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- Faculty Development Programs: Second Party to train the Faculties of First Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

The following training programs will be taken by second party.

- 1 Making of Jam, Ketchup, Chocolate making, Cake making
- 2 Aggarbatti making
- 3 Rangoli
- 4 Mehandi
- 5 Cutting, Tailoring and Blowse
- 6 Fashion Dresses
- 7 Butisian
- Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- There is no financial commitment on the part of the SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS, SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP, NASHIK, the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

# CLAUSE 3 INTELLECTUAL PROPERTY

3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppels or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

Smt. Vinlaben Khimji Tejookaya, Arts, Science & Commerce College, Deolali-Camp, (Nasik)

Jan Shikehan Sanathan, Nashik

Name of Industry specializations : Training & Marketing

Activities and services ....

- **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
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Smt. Winlaben Khimji Tejookaya, Arts, Science & Commerce College, Deolali-Camp. (Nasik)

Jan Shikehan Sansthan, Nashik

#### **CLAUSE 4**

#### VALIDITY

This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period JAN SHIKSHN SANSTHAN, CIDCO NASHIK

, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of JAN SHIKSHN SANSTHAN, CIDCO NASHIK

The Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU

Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

# CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party Second Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of NASHIK CITY.

PRINCIPAL
Smt. Vimlabea Khimil Tejookaya,
Arts, Science & Commerce College,
Deotali-Gemp, (Nasik)

Director

Director

Ans Shikehan Sansthan, Nashik

...7

#### AGREED:

For Name of Institution

For Name of Industry

Authorized Signatory

PRINCIPAL
Smt. Wholaben Khimji Tejookaya,
Arts, Science & Commerce College,
Deolali-Gemp, (Nasik)

Authorized Signatory

Director

Jan Shihahan Sanethan, Nashik

Name of Institution SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS, SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP,	Name of Industry MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP GOVT. OF INDIA NEW DHELI JAN SHIKSHN SANSTHAN, CIDCO NASHIK
Address: Lam road, Deolali Camp Nashik, 422401	Address: Uttamnagar CIDCO, NASHIK
Contact Details :0253 2473132, 2473131	Contact Details 0253-2371098
E-mails: svktcollege@yahoo.co.in	E-mails:
Web: www.mvpsvktcollege.com	Web:

Witness 1: P. Tadhar
Witness 3: P.T. Jadhar

Witness 2: Dr. S. A. Bhamare

Witness 4: Passa



# MARATHA VIDYA PRASARAK SAMAJ'S Shrimati Vimlaben Khimji Tejookaya ARTS, SCIENCE AND COMMERCE COLLEGE

(S.V.K.T. College)

Lam Road, Deolali Camp, Naka No. 6, Nashik - 422 401. (M.S) INDIA

NAAC Re-Accredited "A" Grade with CGPA 3.10 HONOURED WITH "CHHATRAPATI SHIVAJI MAHARAJ VANASHREE PURASKAR-2017"

Dr. Vijay J. Medhane M.Sc., Ph.D. Principal

Affiliated to Savitribai Phule Pune University Id No. PU/NS/ASC/029 (1984)

College Code No.: 0168 Center Code No.: 0168

Junior College Index No. J-13.07.007

दि. १४/०५/२०२२

### स्चना

श्रीमती विमलाबेन खिमजी तेजूकाया कला, विज्ञान व वाणिज्य महाविद्यालय,देवळाली कॅम्प व जनशिक्षणसंस्थान, नाशिक यांच्या संयुक्त विद्यमाने विविध कोर्सेस चे आयोजन करण्यात येत आहे. ह्या कोर्सेसमुळे विद्यार्थ्यांना स्वयंरोजगाराची संधी उपलब्ध होऊ शकते.

ानु. क्र. वोर्स	कालावधी
१ जॅम, केचप,चॉकलेट व केकमेकिंग	५ दिवस
२ अगरबत्ती तयार करणे	५ दिवस
३ रांगोळी	८ दिवस
४ मेहेंदी	८ दिवस
५ ब्युटीशियन	८४ दिवस
६ फॅशन ड्रेसेस	९५ दिवस
७ कटिंग, टेलरिंग व ब्लाउज	१०० दिवस

अधिक माहितीसाठी संपर्क- ने दिणी करावीः

- कला शाखा- डॉ. श्रद्धा रारावीकर (मानसशास्त्र विभाग)
- वाणिज्य शाखा- प्रा. श्वेता श्रीमाळी (वाणिज्य शाखा)
- विज्ञान शाखा- प्रा. सोनाली शिरसाठ (भौतिकशास्त्र विभाग)

श्रीमती विमलाबेन खिमजी तेजकाया

कला विज्ञान व वाणिज्य महाविद्यालय देवळाली-कॅग्य (गाशिक



#### M.V.P.Samaj's Shrimati Vimlaben Khimji Tejookaya Arts, Science and Commerce College Deolali Camp, Nashik – 422 401

### Skill Development Courses Report Academic Year – 2022-2023

In the academic year 2022-23, Mehandi and beauty parlour courses were organized for the holistic development of students in association with our college and Janshikshan Santha, CIDCO, Nashik. Completed 8 days mehandi course from date 25/05/2022 to date 31/05/2022. The 49 girls' students and one boy student total 50 students were completed this course. The advance Mehandi course was completed 14 girls' students and one boy students, total 15 students were competed this course.

Beauty & Wellness course (Beauty Care Assistant) was conducted from 01/08/2022 to 14/11/2022 for a period of 105 days. The total number of students for this course was 40. A total 105 students have benefited for all these courses. Our college Principal Dr.Vijay Medhane giving his cooperation for the successfully completed this course. The Janshikshan Sanstha's Coordinator Mrs.Sangeeta Dethe and her trainer was well doing for the successfully completed this course, and cooperation with coordinator Dr.Jayashri Jadhav's support.

Dr.Jayashri Jadhav

Co-Ordinator

Deole a Camp Camp Dist. Ness

Dr.S.S.Kale

Smt. Vimlaben Khimji Tejookaya. Arts Science & Commerce College, Deolali-Cami (1994)



### M.V.P.Samaj's

## Shrimati Vimlaben Khimji Tejookaya Arts, Science & Commerce College, Deolali Camp, Nashik.

Ministry of Skill Development Entrepreneurship Govt.of India, New Delhi Janshikshan Sanshthan, Nashik Vocational Training

Dated 21.05.2022 to 31.05.2022

Sr. Na	Name of Event/Competition	Name of The Student Participated
1	Mehandi	Aafiya Akthar Sayyad
2	Mehandi	Aarti Vitthal Gadhve
3	Mehandi	Aishwaraya Tukaram Shelke
4	Mehandi	Akshada dilip Bhor
5	Mehandi	Akshada Sachin Mahale
6	Mehandi	Achal Avdhesh Paswan
7	Mehandi	Anjali Vishal Ahire
8	Mehandi	Dipali Arun Zankar
9	Mehandi	Gayatri Raju Sonawane
10	Mehandi	Gayatri Vonod Mahajan
11	Mehandi	Gayatri Raju Mandlik
12	Mehandi	Kajal Sukdeo Sabale
13	Mehandi	Kanchan Bharat Bhor
14	Mehandi	Karina Jalindarnath Bangar
15	Mehandi	Kirti Balwant Dhokane
16	Mehandi	Madhuri Rajendre Bhoye
17	Mehandi	Manisha Ramaadhar Pasi
18	Mehandi	Muskan Jamil Pathan
19	Mehandi	Nandini Chandrabhan Lohare
200	Mehandi	Nikita Baban Kanmahale
21	Mehandi	Nilam Rakesh Saude
22	Mehandi	Payal Sanjay Handore
23	Mehandi	Prachi Ratan Ingole
2.6	Mehandi	Pranjal mahadeo Shinde
25	Mehandi	Priti Dnyaneshwar Godse
26	Mehandi	Radhika Sahivaji Sangle
27	Mehandi	Reuka Shridhar Sonawane



Sr. No.	Name of Event/Competition	Name of The Student Participated
28	Mehandi	Riddhi Kiran Ahire
29	Mehandi	Roshni Rangnath Gaikwad
30	Mehandi	Rutuja Ramkrushna karanjkar
31	Mehandi	Sadhana Balu Shinde
32	Mehandi	Sakshi Gorakh Hagawane
33	Mehandi	Sakshi Sunil Gode
34	Mehandi	Sakshi Somnath Kasar
35	Mehandi	Sandip Suresh Sayale
36	Mehandi	Siddhi Sharad Kasar
37	Mehandi	Sneha Harendra Sah
38	Mehandi	Sneha Shivaji Waghmare
39	Mehandi	Shital Rohidas Palde
40	Mehandi	Sonali Kanchan Adke
41	Mehandi	Sonali Shivaji Kale
42	Mehandi	Tanmayi Sanjay Deshmukh
43	Mehandi	Tejshree Prakash Palde
44	Mehandi	Trupti Balu Shejwal
45	Mehandi	Vaibhavi Bharat kasar
46	Mehandi	Vandana Dipak Dhokane
47	Mehandi	Vidya Bhanudas Jundre
48	Mehandi	Yadnyata Satish Raut
49	Mehandi	Yogita Bajirao Zankar
50	Mehandi	Zohena Asif Shaikh

Dr. I.P. Jadhay

Co- Ordinator

Decleti de Cemp Dist. Nask of

Dr.S.S.Kale

PPINCIPAL,
Smt. Vimlaben Khimji Tejnokaya,
Arts. Science & Commerce Cc'lone,
Deolali-Camp (Nasik)



### M.V.P.Samaj's

# Shrimati Vimlaben Khimji Tejookaya Arts, Science & Commerce College, Deolali Camp, Nashik.

Ministry of Skill Development Entrepreneurship Govt.of India, New Delhi
Janshikshan Sanshthan, Nashik
Vocational Training

Dated 01/08/2022 to 14/11/2022

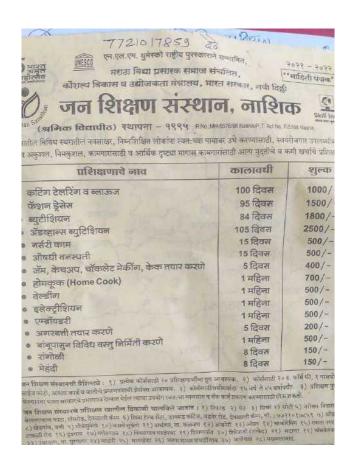
#### **Beautician Course Students List**

Sr. No.	Name of Event/Competition	Name of The Student Participated
1	Beautician	Ahire Anjali Vishal
2	Beautician	Shinde Pranjal Mahadeo
3	Beautician	Tile Kalyani Kailas
4	Beautician	Kasar Sakshi Somnath
5	Beautician	Palde Tejashree Prakash
6	Beautician	Savle Kajal Sukdev
7	Beautician	Mate Prachi Ravindra
8	Beautician	Raut Yadnyata Satish
9	Beautician	Kandekar Gayatri
10	Beautician	Jundre Vidya Bhanudas
11	Beautician	Kedar Sakshi Pradeep
12	Beautician	Bhor Akankasha Dilip
13	Beautician	Hagawane Sakshi Gorakh
14	Beautician	Bangar Karina Jalindranath
15	Beautician	Shelke Aishwarya Tukaram
16	Beautician	Shaikh Roshni Azad
17	Beautician	Ghode Sakshi Sunil
18	Beautician	Mandlik Gayatri Raju

PRINCIPAL Smt. Vimlaben Khimji Tejookaya, Arts, Science & Commerce College Deolah-Carno, (Nasik)



Class of Mehandi Certificate course



Certificate Courses conducted by Janshikshan Sanstha

# **AGREEMENT**

# SHRIMATI VIMALABEN KHIMJI TEJOOKAYA ARTS, SCIENCE & COMMERCE COLLEGE (S.V.K.T), NASHIK (DEOLALI CAMP)

AND

ROJGAR AVM CAREER MARGDARSHAN KENDRA





# Agreement

THIS AGREEMENT is made and executed at Nashik Date: 03 / 02 / 2023

#### BETWEEN

Shrimati Vimalaben Khimji Tejookaya Arts, Science & Commerce College, Nashik having its office & campus at Deolali Camp, Nashik; a college run by Maratha Vidya Prasark Samaj, Nashik a registered Trust under Bombay Public Trust Act, 1950 & a Society registered under The Societies Registration act, 1860 having Central office at: Shivajinagar, Gangapur Road, Nashik Dist. Nashik PIN Code 422 002, both are represented by the Principal Dr.S.S. Kale hereinafter collectively referred to as "COLLEGE" (which term shall wherever the context so requires, mean and includes its successors and assigns) of the "FIRST PART"

Page No.2...

PRINCIPAL Smt. Vimlaben Khimji Tejookayā, Arts, Science & Commerce College Declali - Camp (Nasik)

Margdarshan Kendra For Rolgar AVM Care





# Rolgar AVIII Career

#### AND

"ROJGAR AVM CAREER MARGDARSHAN KENDRA a firm registered under Ministry of Micro, Small and Medium Enterprises (MSME Registration No. UDYAM-MH-33-0201712) GST No. Not Applicable through its proprietor Mr. Shreyas Satish Kulkarni(PAN-BJPPK5392G), having Registered office at 201, Shriram Society, Pandit Naka, Gotheghar, Shahapur Dist. Thane -421 601 and Opp. Dominoz Pizza, Dsouza Colony, College Road Nashik-422 005. hereinafter collectively referred to as RCMK (which term shall wherever the context so requires, means and include its owner, directors, representatives, successors-in-office and assigns) of the "SECOND PART"

Whereas, First Part is a college run by MVP Samaj and it is in a imparting graduation/post-graduation level education to its students.

AND Whereas, Second Part "RCMK" is providing training and education in Accountancy, Information Technology, Vocational Courses & Soft Skills through the use of computer-based systems & android application(app). RCMK guides students for Job Vacancies & Self Employment.

AND WHEREAS both parties shown interest to have the college tie-up with each other, to conduct extra curriculum activity & to impart training of the RCMK courses for college students at the college premises;

AND WHEREAS RCMK agreed to impart Training of the courses in full & modular at the college premises itself, without however making college liable in any manner whatsoever;

NOW THEREFORE IN CONSIDERATION OF THE PREMISES AND MUTUAL COVENANTS AND PROMISES MADE HEREINAFTER THE PARTIES HERETO AGREE AS FOLLOWS –

#### 1. DEFINATIONS:

- 1.1. The term "Commencement" shall mean the date of signing of agreement.
- 1.2. The term "Centre" shall mean the Classrooms/Lab at College premises.
- 1.3. The term "Month" shall mean a calendar month and "Year" shall mean an academic year (i.e. from Feb. 2023 to April 2025) subject to completion of the course. For each batch, the course is not complete the above period will extend accordingly.

Smt. Vimlaben Khimji Tejookaya. Arls, Science & Commerce College Deolali - Camp (Nasik)



For Rojgar AVM Career Margdarshan Kendra



#### 2. RESPONSIBILITY:



#### FIRST PART:

- 2.1. The College shall provide the infrastructure like classrooms and computers.
- 2.2. The College shall provide students for each batch.
- 2.3. The College shall look after the maintenance of classrooms and computers.
- 2.4 The College shall be expected to render full support and co-operation During the Functioning of the entire courses at the College premises.
- 2.5 The College will collect the fees from the students and payment (80 % of total fees) will be made to "Rojgar Avm Career Margdarshan Kendra".
- 2.6 The college will pay 50% of fees to RCMK at commencement of courses & remaining 50% after completion of courses

#### Second PART:

- 2.6. RCMK will provide the Course Contents/Notes & Recorded Sessions through android application and certificates to the students.
- 2.7. RCMK will conduct the Examinations of the students.
- 2.8. If required it will train the Faculties of the First part.
- 2.9. It will be responsibility of RCMK to complete quality training for mention courses & try to provide placement assistance to students or information about nearby vacancies.

#### 3. ACADEMIC COMMITTEE:

An academic committee shall be formed by Second Part to monitor the syllabus, progress of the course and fees structure as may be presently applicable including any increase there at.

# 4. ACADEMIC EXECUTION:

Smt. Vimlaben Khimji Tejookaya

Arts, Science & Commerce College

- 1. The courses: 1) "Office Automation" 30 Hours, 2) "Data Management (Advanced Excel)" 30 Hours, 3) "Accounting using Tally Prime GST" 60 Hours. Course contents as enclosed in the Annexure attached.
- RCMK will provide contents/notes for the same.
- College would carry on the internal announcement of the courses to their students, encouraging them to enroll for other courses. Second part would support College for such activities by holding seminars regarding the courses of RCMK in their classrooms.

4. In case of any change, modifications or alterations to the above terms the same shall be subject to written approved from both the parties.

For Rolgar AVM Career Margdarshan Kendra

Proprietor



#### 5. FEES SHARING:

- 5.1 The total fees for the course is Rs. 390/-(For any two courses) & Rs.490/-(For three-courses) and the sharing will be the First Part will get 20% of the fees collected from the students for mobilization, infrastructure, manpower, coordinator honorarium etc.
- 5.2. The Second part will get 80% of the total gross collection from the students.
- 5.3 The Fees will be collected by College and the college will pay 50% of fees to RCMK at commencement of courses & remaining 50% after completion of courses.
- 5.4 G.S.T is not applicable in above fees. TDS will be deducted as per rules.

#### 6. MANPOWER:

6.1. Completion of training, Examination & Certification is responsibility of RCMK. and The Managerial and Non-Teaching staff required for the Centre shall be provided by the College.

#### 6.2 SECURITY:

College will have to bear the sole responsibility of the security of the computer and other things of the centre.

#### 7. VALIDITY:

- 7.1. This agreement shall come into force from the date of signing and will be valid till until the completion of course.
- 7.2. Negotiations as to any extension of this agreement of another month to the terms of any such extension shall be taken up one (1) month prior to the expiry of this agreement subject to the approval of the Governing Body of the College and RCMK. The Agreement shall stand NULL & VOID thereupon.

#### 8. TERMINATION:

Except or otherwise provided, this agreement can be terminated by a three months prior written notice by either party during the tenure of agreement. RCMK will be responsible to complete the training of the student, to conduct examination & provide notes, certificates to the students.

For Rojgar AVM Career Margdarshan Kendra

Camp. Obst Nasa

PRINCIPAL
Smt. Vimlaben Khimji Tejookaya,
Arts, Science & Commerce College
Deolali - Camo (Nasik)

#### 9. ARBITRATION:

Any dispute or differences, which may arise out of this Agreement or in the institution there are, included any dispute relating to its validity or effect shall be settled under the Arbitration of person appointed by Shrimati Vimalaben Khimji Tejookaya Arts, Science & Commerce College, Nashik under the provisions of Arbitration & Conciliation Act, 1996.

#### 10. JURISDICTION

All Legal Matters will be heard and settled in the City of Nashik Jurisdiction only.

IN WITNESS WHEREOF the parties hereto have hereunto caused their respective Common Seal to be hereunto affixed the day, month and the year first above written.

Deolali - Camp (Nasik)



For Rojgar AVM Career Margdarshan Kendra

SECOND PART

Witness:

1. Name: Or V. G. Gair Was Address: S.V.K.T. College

Commercie Do

2. Name: prot Kardak sontoshE. Scholass
Address: S.Y.K.T. college

Commerce Dept.

Dealace camp.



#### Maratha Vidya Prasarak Samaj's

### Shrimati Vimlaben Khimji Tejookaya Arts, Science and Commerce College

Office:0253-2473132 Email: iqac@mvpsvktcollege.ac.in

Affiliated to S.P.P.U. | Pune: PU/NS/ASC/029(1984) | AISHE: C-41392

(NAAC Accredited 'A' Grade with CGPA of 3.11) (Best College Award by S.P.P.U., Pune 2023)





Name of the activity: Inauguration of Tally- GST online certificate course.

Background: On 4th March, 2023 at 10:45 am in the Tejookaya hall of S.V.K.T. College, Deolali Camp, Inauguration of Tally- GST online certificate course was held in the presence of Principal Dr. S. S. Kale and guest of honour Mr. Shreyas Kulkarni, Founder Rojgar avm Career Margadarshan Kendra.

Objectives: 1. To inaugurate the Tally- GST online certificate course.

2. To encorage the students to enroll for the course.

3. To make the students aware about tally software and calculation of GST.

Schedule: 1. Date: 04/03/2023

2. Time: 10:45 am

3. Place: Tejookaya Auditorium

Details of Activities Conducted: On 4th March, 2023 in the Tejookaya hall of S.V.K.T. College, Deolali Camp, Inauguration of Tally- GST online certificate course was held. For this event the Founder Rojgar avm Career Margadarshan Kendra Mr. Shreyas Kulkarni Nashik was present. Principal Dr. S. S. Kale was the Chairperson and Dr. V. G. Gaikwad was conveyor. The programme was started with Felicitation of all the guests. Mr. Kulkarni guided the students regarding the use of Tally- GST in the corporate world. He encouraged the students for the participation in the 3 months certification course for their professional development. He also motivated them towards the academic excellence. Chairperson of the session, Principal Dr. S. S. Kale expressed their views on the need of practical knowledge of accountancy in the current era. Head of the department Dr. Vijay Gaikwad proposed the programme with introduction of guest of honour. Dr. Urmila Gite was the ancher and Mr. Kiran Shende expressed vote of thanks. Mr. Santosh Kardak, Dr. Shweta Shrimali, Ms. Rajana Jadhav co-ordinated the event. Vice Prinipal Mr. Dilip Jadhav was present for the programme.

Name of Resource Persons (if any): 1. Mr. Shreyas Kulkarni

Number of beneficiaries (participants): 112 students





#### Maratha Vidya Prasarak Samaj's

### Shrimati Vimlaben Khimji Tejookaya Arts, Science and Commerce College

Office:0253-2473132 Email: iqac@mvpsvktcollege.ac.in

Affiliated to S.P.P.U. | Pune : PU/NS/ASC/029(1984) | AISHE : C-41392

(NAAC Accredited 'A' Grade with CGPA of 3.11) (Best College Award by S.P.P.U., Pune 2023)





Attendance with Signatures:

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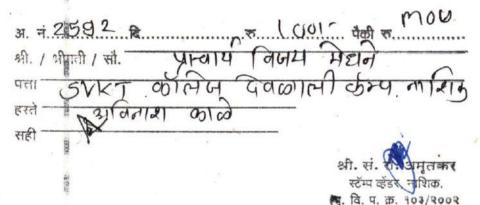
H.O.D. (Commerce Dept.) Smt. Vimlaben Khimji Tejokaya Arts, Science & Commerce College, Deplali Camp, Tal. & Dist. Nashik PRINCIPAL
Smt. Vimlaben Khimji Tejookaya.
Arts, Science & Commerce College
Declali-Camp (Nasik)



महाराष्ट्र MAHARASHTRA

O 2019 O

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# Memorandum of Understanding

### Between

M.V.P.Samaj's Shrimati Vimlaben Khimji Tejookaya Arts, Science & Commerce College, Deolali Camp, Nashik- 422401

Madhusudan Swayamshayata Bachat Gat Dastgir Baba Road Deolali Camp, Nashik-422401 Party-1 M.V.P.Samaj's Shrimati Vimlaben Khimji Tejookaya Arts, Science & Commerce College, Deolali Camp, Nashik- 422401

Party-2 Madhusudan Swayamshayata Bachat Gat Dastgir Baba Road Deolali Camp, Nashik - 422401

The parties mentioned above by this Memorandum of Understanding of mutually agree to share following services from the academic year 2019-20 to till date.

- 1) Party 2 will provide the guidance about self-help Group, like a Self Employment, Economic Empowerment, Etc.
- 2) Party 1 Will conduct Lecture -cum-Guidance on the self-help Groups.
- 3) Party 2 will provide training and Lecture cum workshop and relevant guidance to the Party 1,through the members of self-helpgroups with the aim to teach them about teamwork, the skillof saving and Investment& how to face day to day problems and management issues of their Self-Help Groups as well

Smt. Vimlaben Khimji Tejookaya. Arts. Science & Commerce College Declali Camp. (Nasik) Deolaii Camb Obst Nashik O

Party 1 - Dr. V.J.Medhane (Principal) Shrimati Vimlaben Khimji

Tejookaya Arts, Science & Commerce College, Deolali Camp, Nashik.

मिन्द्रिया स्थाप अपन्य स्थाप बन्नत गर

Party 2 - Godse Asha Chandrakant Madhusudan Swayamshayata Bachat Gat Dastgir Baba Road Deolali Camp, Nashik.



# Maratha Vidya Prasarak Samaj's S.V.K.T.Arts, Science& Commerce College Deolali Camp, Nashik Department of Economics

# Best Practice Self Help Groups Photos 2022-23





Dr. Jayashri Jadhav guiding women's self help groups Belat Gavhan

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MEMORANDUM OF UNDERSTANDING (MOU)

**BETWEEN** 

SMT.VIMALABEN KHIMJI TEJOOKAYA, ARTS, SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP (NASHIK) MAHARASHTRA

> NAME OF INDUSTRY GODAVARI URBAN CO.OP. BANK.LTD. NASHIK

> > **FOR**

SKILL DEVELOPMENT, OUTCOME BASED TRAININGS, PLACEMENT, R&D SERVICES AND RELATED SERVICES

PRINCIPAL
Smt. Vimlaben Khimji Tejuc. 453
Arts, Science & Commerce Caneg.
Deplati Camp. (Nasik)







# MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 25 day of JUne – Two Thousand and Twenty by and between

SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS ,SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP, LAM ROAD, NASHIK, the First Party represented herein by its Name of Competent Authority / Representative (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

#### AND

# GODAVARI URBAN CO.OP. BANK.LTD. NASHIK

The Second Party, and represented herein by its Zonal / Divisional Head, C.O.E. (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party') as

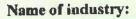
#### WHEREAS:

- A) First Party is a Higher Educational Institution named:
  - (I) Name of Institution: SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS, SCIENCE AND COMMERCE COLLEGE, DEOLALI CAMP, LAM ROAD, NASHIK
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.

D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

PRINCIPAL
Smt.Vimlaben Khimji Tejookaya.
Arts, Science & Commerce College
Deolali Camp. (Nasik)







GODAVARI URBAN CO.OP. BANK.LTD. NASHIK

E) the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of - Banking, Corporate Banking, Financial Sector, Auditing Department and related fields

Name of industry: GODAVARI URBAN CO.OP. BANK.LTD. ASHIK

F) , the Second Party is promoted by PRINCIPAL;

Address and background of the Company. Old NMC Building, New Pandit colony, NASHIK-422002

- G) Give related information, its branches, and dimensional information about the industry concerned with whom the MoU is sworn.
  - Recognition reputed bank in the co-operative sector in the Nasik
  - It provides guidance and hands banking & finance

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS:

# CLAUSE 1 CO-OPERATION

Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

PRINCIPAL Smt.Vimlaben Khimi, lejockaya, Aris, Science & Commerce College Deolali Camp, (Nasik)





The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

#### CLAUSE 2 SCOPE OF THE MoU

The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

Curriculum Design: Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

Industrial Training & Visits: Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

Research and Development: Both Parties have agreed to carry out the joint research activities in the fields of --

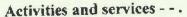
Name of Industry specializations,: Banking & Finance

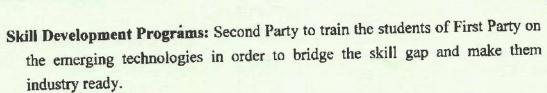
PRINCIPAL
Smt.Vimlaben Khimji Tejookaya.
Arts,Science & Commerce College
Deolali Camp. (Nasik)





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- Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- Faculty Development Programs: Second Party to train the Faculties of First Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- Placement of Trained Students: Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs; and will facilitate placements for at least 50...% of the students.
- Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programmes on the terms specified herein
- There is no financial commitment on the part of the SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS ,SCIENCE AND COMMERCE COLLEGE , DEOLALI CAMP , MVP SAMAJ'S SMT VIMLABEN KHIMJI TEJOOKAYA ARTS ,SCIENCE AND COMMERCE COLLEGE , DEOLALI CAMP , the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

# CLAUSE 3 INTELLECTUAL ROPERTY

3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4
VALIDITY

This Agreement will be valid until it is expressly terminated by either Party

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PRINCIPAL
Smt.Vimiaben Khimji Tejockaya
Arts, Science & Commerce Cullege
Deorali Canip. (Nasik)



# on mutually agreed terms, during which period GODAVARI URBAN CO.OP. BANK.LTD. NASHIK

, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of GODAVARI URBAN CO.OP. BANK.LTD. NASHIK.

the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

#### **CLAUSE 5**

#### RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party Second Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters Nashik of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of Name of City.

PRINCIPAL Smt. Vimlaben Khimji Tejookaya. Arts, Science & Commerce College Deolali Camp, (Nasik)







#### AGREED:

For Name of Institution

For Name of Industry

Authorized

Web-http://godavaribank.com

Smeuthorized Signato Maya. Arts, Science & Commerce College Declail Camp, (Nasik)

svktcommunitycollege@gmail.com

www.mvpsvktcollege.ac.in

Name of Institution SMT. VIMLABEN KHIMJI TEJOOKAYA ARTS ,SCIENCE AND COMMERCE COLLEGE , DEOLALI CAMP ,.	GODAVARI URBAN CO.OP. BANK.LTD. NASHIK
Address: Lam road, deolali camp Nashik, 422401	Address: Old NMC Building, New Pandit clony, NASHIK-422002
Contact Details:- 02532473132	Contact Details(0253)2574256,2314438, Mob.No.9423967927
E-mails:	E-mails-godavaribanknsk@gmail.com

war pourse Witness 1:

E-mails:

Web:

Witness 3: X. Rodor

Witness 4: Drapadi



# S.V.K.T., Arts, Science and Commerce College, Deolali Camp Department of Economics

Academic Year 2022-23

# Diploma in Banking and Finance Report

Department of Economics has conducted Diploma in Banking and Finance course. The duration for this course is one year. As part of this course, guest lecture was organized by Dr. Asha Kadam and Dr. Pankaj Kumar Gangurde. Diploma in Banking & Finance First semester is completed and course is ongoing. Total 41 students have been admitted for this course.

H.O.D.

popartment of Economics

ant Vimiaben Khimji Tepokaya.

Arts Science & Commerce College, Daoleli-Camp, (Nexi\*) Deolali Camp Constant Camp Constant Camp Constant Camp Constant Co

(Dr.S.S.Kale) Principal

PRINCIPAL

Smt. Vimlaben Khlmji Tejookaya,

Arts, Science & Commerce College

Deolali-Camp. (Nasik)





#### M.V.P. Samaj's S.V.K.T., Arts,Science and Commerce College, Deolali Camp

#### Academic Year 2022-23 Diploma in Banking and Finance Students List

Department of Economics

Sr.No.	Name of the Students	Category	Class
1	Adke Bhagyashri Kailas	Open	F.Y.B.Com
2	Aher Shravani Ganesh	SC	F.Y.B.Com
3	Aher Shruti Vitthal	Open	S.Y.B.A.
-4	Barkale Gayatri Yogesh	Open	F.Y.B.Com
5	Chandramore Yash Hemant	SC	S.Y.B.Com
6	Dawane Samadhan R.	Open	F.Y.B.Com
7	Dugaje Pooja Vikram	OBC	S.Y.B.A.
8	Gaikawad Sakshi Namdeo	OBC	F.Y.B.A.
9	Gaikwad Jayesh Dhanraj	OBC	S.Y.B.Com
10	Gaikwad Vaishali Lahu	Open	S.Y.B.Com
11	Gangurde Kaveri Suresh	SC	F.Y.B.Com
12	Gite Parimal Gorakshnath	Open	F.Y.B.Com
13	Godse Arti Bajirao	OBC	F.Y.B.Com
14	Gulve Sakshi Sanjay	OBC	F.Y.B.Com
15	Harak Varsha Dattu	Open	S.Y.B.A.
16	Ingale Dipali Sahebrao	Open	F.Y.B.A.
17	Jadhav Megha Dhanaji	Open	F.Y.B.Com
18	Jaras Ankita Sudhakar	OBC	F.Y.B.Com
19	Kale Prachi	Ореп	F.Y.B.Com
20	Khairnar Chetan Sanjay	OBC	F.Y.B.Com
21	Mane Kiran Gorakh	Open	S.Y.B.A.
22	Muthal Prasad Rohidas	OBC	F.Y.B.Com
23	Pal Aman R.	NTC	S.Y.B.Com
24	Pardeshi Shraddha Anil	SC	F.Y.B.Com
25	Pardeshi Sumit Kanhaiyya singh	Open	F.Y.B.A.
26	Patil Vaishnavi Vasudev	Open	S.Y.B.Com
27	Patole Priyanka Dattu	Open	F.Y.B.Com
28	Pawar Vicky P.	NT-A	F.Y.B.Com
29	Rathod Shital Prakash	NT	F.Y.B.Com
30	Sabale Arpan Layakat	Open	F.Y.B.Com
3.1	Sanade Sapna Pandurang	SC	F.Y.B.Com
32	Sharma Kajal Kumari Sudarshan	Open	F.Y.B.Com
33	Shelke Aishwarya Digambar	Open	F.Y.B.Com
34	Shinde Pallavi Dattatray	Open	F.Y.B.Com
35	Shinde Sakshi Vasant	Open	
36	Singh Gayatri	Open	F.Y.B.Com
37	Sonawane Atul Raju	Open	F.Y.B.Com
38	Sonawane Samadhan Gopinath	Open	F.Y.B.Com
39	Thakare Pranav Pravin	OBC	F.Y.B.A.
10	Wankhade Payal Vinod	SC	S.Y.B.Com
11	Zankar Piysha Ramdas		F.Y.B.Com
	The state of the s	Open	F.Y.B.Com

Dr.J.P.Jadhav Coordinator

H.O.D.

Department of Economics and Windaher Yhimi: Tejcokaya Ans Science & Commerca College Daola'i-Camp, ((Jasis) Dr.S.S.Kale Principal

PRINCIPAI,
Smt. Vimlaben Khimji Tejookaya,
Arts, Science & Commerce Gollege
Deolali Camp. (Nasik)

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#### Journal of the Indian Chemical Society

journal homepage: www.journals.elsevier.com/journal-of-the-indian-chemical-society





### Exploration of biomass waste as low cost adsorbents for removal of methylene blue dye: A review

Bharat N. Shelke a,d, Manohar K. Jopale b,d, Amol H. Kategaonkar, Ph.D c,\*

- a Department of Chemistry, M.V.P. Samaj's Arts, Science and Commerce College, Ozar (Mig), Nashik, 422206, Maharashtra, India
- b Department of Chemistry, M.V.P. Samaj's Arts, Commerce & Science College, Jawahar Road, Tryambykeshwar, Nashik, 422212, Maharashtra, India
- c Research Center and Post Graduate Department of Chemistry, M.V.P. Samaj's K.S.K.W. Arts, Science and Commerce College, CIDCO, Uttamnagar, Nashik, 422008,
- d Research Center and Department of Chemistry, M.V.P. Samaj's G. M. D Arts, B. W. Commerce and Science College, Sinnar, Nashik, 422103, Maharashtra, India

#### ARTICLE INFO

#### Keywords: Adsorption Agricultural waste Fruit peel waste Low cost adsorbents Methylene blue Waste water

#### ABSTRACT

Biomass waste, which is abundantly available has been studied as low cost biosorbent for dye sequestration from waste water. The present review reports on recent development for remediation of methylene blue dye by agricultural waste and fruit peel waste material. The aim of this study was to revise latest literature in the field of dye adsorption and discuss the dye adsorption capacity of different types of adsorbents. The activated carbon prepared from several types of biomass waste material enhances the adsorption efficiency after modification. The variety of activating agents, method of activation, characterization of biosorbent material like SEM, EDAX, BET surface area and FTIR analysis has been explored in the present review. The dye adsorption factors such as effect of pH, agitation time, temperature, adsorbate and adsorbent dose were discussed. The detailed investigation on applicability of isotherm model, kinetic model and thermodynamic parameters has also been presented. The adsorption kinetics and adsorption isotherm model focus on selectivity of adsorbent. Adsorption mechanism, Influence of surface area, influence of pH<sub>pzc</sub> and comparative study of biomass waste adsorbent with other adsorbents have been carried out. The use of biomass waste adsorbents is economically feasible, environmental healthy and found to have outstanding removal capacity of dyes.

#### 1. Introduction

Dyes are organic aromatic compound having complex structure and soluble in water. Every year dye industry produces  $7 \times 10^5$  tons of dyes compound [1]. The industrial effluent contains huge amount of hazardous dyes and it is discarded into the environmental water resources. The presence of even lower amount of dye in water produces colour and which is very harmful to the aquatic life. These dyes prevents the penetration of sunlight into water and disturb the photosynthesis process of aquatic plants, alternately disturb the aquatic life [2]. An approximately 2% dyes from the total present dyes enter into the stream of water through different pathways and pollutes the fresh water. Due to complex structure of dyes, it is difficult to remove it by using chemical reagents and oxidizing agents [3] (see Figs. 1–4).

Most of the dyes are toxic, carcinogenic and cannot be degraded by simple biodegradation technique [4]. Methylene blue is used in great extent in textile industry for colouring the paper, cotton, silk and wool [5]. Different industries like paper, plastic, rubber, leather, textile, cosmetics, food and pharmaceuticals uses large amount of dyes for colouring the material [6].

The traditional methods used for removal of dyes from waste water are physical method, chemical method and biological methods. The physical and chemical methods include precipitation, filtration, flocculation-coagulation and reverse osmosis. The organic chemical compounds converted into mineral material by oxidation process. Chemical method needs specific instruments and chemicals for removal of dyes. It again produces some by-products which create pollution due to its disposal problem. Biological method has limitations for complete removal of dyes. Adsorption is found to be most promising technique for the removal of dyes. The advantage of adsorption techniques are economically feasible, easy handling, availability of adsorbent and better efficiency [7]. Adsorption by low cost adsorbent found most effective for larger scale than other techniques. Activated carbon which is commercially available is a good adsorbent but it increases the cost of

E-mail address: amol.kategaonkar@gmail.com (A.H. Kategaonkar).

<sup>\*</sup> Corresponding author.

# ORIGINAL PAPER: SOL-GEL AND HYBRID MATERIALS FOR ENERGY, ENVIRONMENT AND BUILDING APPLICATIONS



# Development of photoactive MgO nanoflakes using the sol-gel method for the removal of organic contaminants

Harshal A. Dabhane<sup>1,2</sup> · Manohar K. Zate<sup>3</sup> · Anil Kalyankar<sup>4</sup> · Suresh Ghotekar <sup>5</sup> · Ghanshyam R. Jadhav<sup>1</sup> · Vijay J. Medhane<sup>1,6</sup>

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#### **Abstract**

Nanotechnology allows synthesizing photoactive materials which are magnificently proficient at photocatalytic remediation of organic pollutant dyes depending upon the bandgap of the synthesized nanomaterial. In the present study, MgO nanoflakes were fabricated via the sol–gel approach. The as-prepared MgO nanoflakes were characterized using various microscopic and spectroscopic techniques. The surface area and basicity were examined employing the BET adsorption-desorption isotherm and CO<sub>2</sub>-TPD methods. The thickness of MgO nanoflakes was calculated via SEM histogram, where the purity of the sample was confirmed using EDX elemental analysis. The well-characterized photoactive MgO nanoflakes further used photocatalytic remediation of organic dyes like methyl orange and Eriochrome Black T in the presence of sunlight. Moreover, the radical scavenging efficacy was also explored using DPPH and \*OH assays.

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- Department of Chemistry, Smt. Devkiba Mohansinhji Chauhan College of Commerce and Science, University of Mumbai, Silvassa 396 230 Dadra and Nagar Haveli (UT), India
- Department of Chemistry, S.V.K.T. Arts, Commerce and Science College, Savitribai Phule Pune University, Nashik 422401 Maharashtra, India



<sup>☐</sup> Harshal A. Dabhane hadabhane@gmdcollege.in

Suresh Ghotekar ghotekarsuresh7@gmail.com

Department of Chemistry, K.R.T. Arts, B.H. Commerce, and A.M. Science College, Savitribai Phule Pune University, Nashik 422002 Maharashtra, India

Department of Chemistry, G.M.D. Arts, B.W. Commerce and Science College, Savitribai Phule Pune University, Sinnar 422 103 Maharashtra, India

Department of Physics, G.M.D. Arts, B.W. Commerce and Science College, Savitribai Phule Pune University, Sinnar 422 103 Maharashtra, India

Department of Chemistry, R.B. Narayanrao Borawake College, Savitribai Phule Pune University, Shrirampur 413709 Maharashtra, India

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# Bio-inspired synthesis of CdO nanoparticles using *Citrus limetta* peel extract and their diverse biomedical applications

Khanderao Pagar <sup>a,\*\*</sup>, Krishna Chavan <sup>b</sup>, Sunil Kasav <sup>b</sup>, Parita Basnet <sup>c</sup>, Abbas Rahdar <sup>d</sup>, Navish Kataria <sup>e</sup>, Rajeshwari Oza <sup>f</sup>, Yogita Abhale <sup>g</sup>, Balasubramani Ravindran <sup>h,l</sup>, Onkar Pardeshi <sup>l</sup>, Sachin Pawar <sup>a</sup>, Balasaheb Pagar <sup>j</sup>, Suresh Ghotekar <sup>k,\*</sup>

- a Department of Chemistry, S.S.R College of Arts, Commerce & Science College, Savitribai Phule Pune University, Silvassa, 396 230, Dadra and Nagar Haveli (UT), India
- b Department of Chemistry, KKHA Arts, SMGL Commerce & SPHJ Science College, Savitribai Phule Pune University, Chandwad, 423 101, Maharashtra, India
- <sup>c</sup> Department of Chemistry, Sikkim Institute of Science & Technology, Sikkim University, Sikkim, India
- d Department of Physics, Faculty of Science, University of Zabol, Zabol, P.O. Box. 35856-98613, Iran
- e Department of Environmental Sciences, J.C. Bose University of Science and Technology, YMCA, Mathura Rd, Sector-6, Faridabad, 121006, Haryana, India
- f Department of Chemistry, S.N. Arts, D.J.M. Commerce & B.N.S. Science College (autonomous), Savitribai Phule Pune University, Sangamner, 422 605, Maharashtra, India
- g Department of Chemistry, Government College Daman, (Veer Narmad South Gujarat University, Surat), Daman, 396 210, UT of DNH & DD, India
- <sup>h</sup> Department of Environmental Energy and Engineering, Kyonggi University, Suwon-si, Gyeonggi-do, 16227, South Korea
- Department of Electronics, KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, 423 101, Savitribai Phule Pune University, Maharashtra, India
- <sup>j</sup> Department of Chemistry, M.V.P. Samaj's S.V.K.T Arts, Commerce & Science College, Savitribai Phule Pune University, Deolali camp (Nashik), 422 401, Maharashtra, India
- k Department of Chemistry, Smt. Devkiba Mohansinhji Chauhan College of Commerce & Science (University of Mumbai), Silvassa, 396 230, Dadra and Nagar Haveli (UT), India
- <sup>1</sup> Department of Medical Biotechnology and Integrative Physiology, Institute of Biotechnology, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Thandalam, Chennai, 602 105, Tamil Nadu, India

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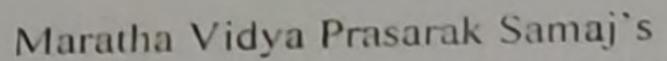
#### ABSTRACT

Nowadays, the green chemistry approach for nanoparticle (NP) synthesis has acquired a plethora of interest due to its expeditious and eco-benevolent nature. In the current study, Citrus limetta peel extract was applied as a unique natural reducing/stabilizing agent in the bio-inspired fabrication of cadmium oxide (CdO) NPs. The physicochemical features of the prepared CdO NPs were critically studied through XRD, FTIR, SEM, EDX, HRTEM, PL, and UV-DRS analyses. According to XRD examination, the CdO NPs were confirmed to have a single face-centered cubic Monteponite phase. The median particle size of CdO NPs was revealed by HRTEM investigation to be 51.5 nm, and the XRD study confirmed this finding. The UV-DRS was utilized to calculate the band gap of bio-fabricated NPs and was found to be 2.6 eV. FTIR analysis evinced the functional groups of biologically active molecules of Citrus limetta peel extract. Moreover, diverse biological applications such as antibacterial, antioxidant, anticancer, DNA damage, and biocompatibility studies of Citrus limetta peel extract-mediated CdO NPs were revealed. The antibacterial efficacy of the CdO NPs screened against human pathogens (B. subtilis, E. coli, K. pneumoniae, and S. typhi) and displayed higher bactericidal performance against B. subtilis. The CdO NPs displayed dose-dependent anticancer performance against the cancer cell line (A-549) in the MTT assay, with activity at an IC<sub>50</sub> of 152.2 µg/mL. The DPPH and ABTS assays were applied to determine the antioxidant capacity of CdO NPs. For the DPPH and ABTS assays, the IC50 values of CdO NPs were determined to be 94.47 and 68.98 µg/mL, respectively. Additionally, Citrus limetta peel extract-mediated CdO NPs also displayed DNA damage and biocompatibility performance. Therefore, due to their biological functionality, these biogenically produced NPs perform as efficacious therapeutic agents.

E-mail addresses: khanderaopagar205@gmail.com (K. Pagar), ghotekarsuresh7@gmail.com (S. Ghotekar).

<sup>\*</sup> Corresponding author.

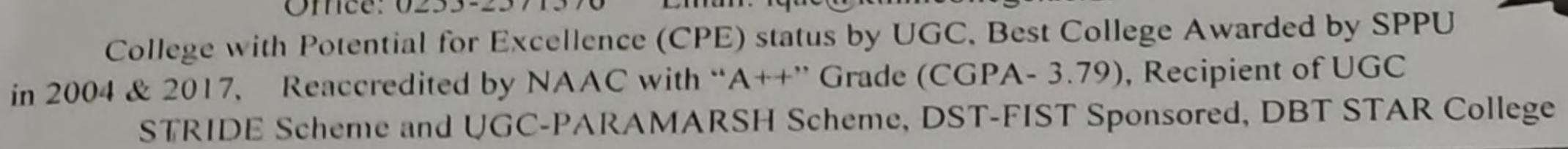
<sup>\*\*</sup> Corresponding author.

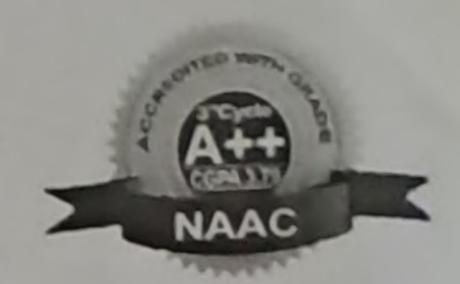




# KRT Arts, BH Commerce and AM Science (K.T.H.M.) College, Nashik 422002

Office: 0253-2571376 Email: iqac@kthmcollege.ac.in







Ref No. 5412/2022-23

Date: 20 Feb. 2023

To,

Dr.(Smt) J.P. Jadhav
Assistant Professor,
Dept. of Economics,
SVKT Arts, Science & Commerce College, Deolali Camp, Nashik

Subject: Letter of Appreciation....

Dear Sir/Madam

We would express our sincere gratitude for being here with us as a resource person for "Ph.D. Coursework in Economics for Ph.D. students registered under Faculty of Humanities of Savitribai Phule Pune University, Pune from 20<sup>th</sup> Jan. 2023 to 22<sup>th</sup> Feb. 2023 at KRT Arts, BH Commerce and AM Science (KTHM) College, Nashik.

Received your valuable guidance on the following topic

Topic: World Trade Orgnisation

Date: 19 Feb. 2023

Time: 2.00 to 5.00pm

No. of Lecture Conduction: 02

Thanking You,

(Dr.Amol A. Gaikwad)

Course Coordinator
Head, Dept. of Economics

Head,
Dept. of Economics,
KTHM College, Nashik-2.

(Dr. V.B. Gaikwad)
Principal

Principal

K.R.T. Arts, B.H. Com. &

A. M. Science College, Nashik