

**MEMORANDUM OF UNDERSTANDING
FOR ACADEMIC AND SCIENTIFIC COOPERATION**

This MoU is made and executed at Dombivli on 9th November 2020

Between

Dombivli Shikshan Prasarak Mandal's K.V. Pendharkar College of Arts, Science and Commerce, a NAAC reaccredited 'A' grade college in Dombivli. College is permanently affiliated to University of Mumbai. The Research Laboratory of Department of Botany of the college is permanently recognized by University of Mumbai to carry out research leading to M.Sc. by Research and Ph.D. degrees.

And

Kelkar Education Trust's Scientific Research Centre, Mithagar Road, Mulund (E), Mumbai 400081 is DSIR recognized FDA approved and CRISIL rated.

The above said parties have jointly agreed to enter in to a Memorandum of Understanding (MoU) as under,

- Scientific Research Centre (SRC) will share research facilities for the collaborative work with the Research Laboratory, Department of Botany, Pendharkar College and the outcome will be jointly published as Research Publications.
- There are no monetary transactions /benefits involved in the said MoU.
- MoU will be for the period of twenty four months (w.e.f 9th November 2020 to 8th November 2022)
- Either party is free to terminate the agreement by giving a notice of one month.

**For K.V. Pendharkar College of
Arts, Science and Commerce, Dombivli**



(Shri. Prabhakar R. Desai, Chairman
Dombivli Shikshan Prasarak Mandal)

**Chairman
Dombivli Shikshan Prasarak Mandal.
Dombivli (E).**



For Scientific Research Centre, Mulund



(Dr. S. S. Barve, Director, SRC)



**The Kelkar Education Trust's
SCIENTIFIC RESEARCH CENTRE
V. G. Vaze College, Mithagar Road
Mulund (East), Bombay-400 031, INDIA**

MEMORANDUM of UNDERSTANDING

Between

DSPM's K. V. Pendharkar College, Dombivli.

And

Surface Modification Technologies Pvt. Ltd., Vasai Road.

Concerning the establishment of a Collaborative Program

Dombivli Shikshan Prasarak Mandal's K. V. Pendharkar College MIDC, Dombivli East, Dist Thane-421 203, Maharashtra, India and Surface Modification Technologies Pvt. Ltd. Vasai Road, Dist.- Palghar-401 208, Maharashtra, jointly referred to as "The Parties".

I. Introduction

About DSPM's K. V. Pendharkar College:

Dombivli Shikshan Prasarak Mandal which was established in the year 1972 to provide quality educational facilities to the students of Dombivli and neighboring areas. K. V. Pendharkar College was founded in the year 1979 and has carved a niche for itself as one of the premier higher educational institutions affiliated to the University of Mumbai. This institution, reputed to be the oldest institution, of higher education in Dombivli has over five thousand students enrolled for various regular and professional courses in the faculties of Arts, Science and Commerce including research.

The Mandal takes avid interest both in development of academics and extra-curricular activities. Due to the unflinching support of the management and the faculty members, the students dazzle in diverse fields. The College has regularly featured in the University list of top ten colleges excelling in sports activities. It has pioneered a number of sports events at District and Inter-collegiate levels.

Five departments of the institutions are recognized research centers by the University of Mumbai and since 2013 the institution started the Nano Science Research Center.

The College regularly organize State, National and International level conferences, workshops as well as National Inter-university sports events.

About Surface Modification Technologies Pvt. Ltd.:

Surface Modification Technologies Pvt. Ltd. is a leading surface engineering company provides surface enhancement solutions through high performance Physical Vapour Deposition (PVD) coating technologies. The company has been involved in this market for over 12 years offering standard as well as tailor-made coating solutions to enhance the performance of various cutting tools, dies, moulds and components used in engineering industry, pharmaceutical industry, aerospace industry as well as various segments of decorative industry. Applying these state-of-the art coatings in controlled environment particularly under ultra-high vacuum along with high purity gas atmosphere makes this technology eco-friendly. Surface Modification Technologies Pvt. Ltd. promoters have over 20 years of hands on experience in handling various advance surface treatment technologies and have comprehensive knowledge of its applications and limitation. Honesty to our services and strong customer focus are the core value of Surface Modification Technologies Pvt. Ltd. Whenever our customer wanted, we have created solutions to meet our customer's expectations that has led us to the growth path. Surface Modification Technologies Pvt. Ltd. has headquarter in Mumbai. Dedicated coating centres located in Mumbai and Bangalore are catering to west and south India offering wide range of state-of-the art coating services. Through unmatched knowledge of process and technology, Surface Modification Technologies Pvt. Ltd. is emerging as one of the potential player in Indian surface engineering industry. Surface Modification Technologies Pvt. Ltd.'s dedicated in-house Research and Development centre is always passionate to take challenges and meet the specific requirements of upcoming markets.

[Handwritten signatures]

Over last decade, India is emerging as a centre of manufacturing and innovation. With watchful eye on these changes, in year 2012, Surface Modification Technologies Pvt. Ltd. added new dimension to its business offering watch components manufacturing. Surface Modification Technologies Pvt. Ltd. UNIT-II is one of such venture dedicated to develop and manufacture import substitute decorative brass components for watch industry with proficiency of design. Fulfilling customer's needs and desires are essential for us. Surface Modification Technologies Pvt. Ltd. is striving to achieve total performance outcomes through innovative solutions without compromising focus on ensuring environmental safety and health.

Company's Corporate Vision:

We the promoters of Surface Modification Technologies Pvt. Ltd. strive to inculcate the habit in us of constantly moving forward, innovating, developing technology and creating new business from innovation. Surface Modification Technologies Pvt. Ltd. is a milestone in the journey to the future technologies and business. We plan to cross many more such milestones. We begin from our core strength of using surface modification technologies for the health of the people. In future we plan to develop many more fertile applications and many more surface modification technologies.

The Departments of Physics and Chemistry of K. V. Pendharkar College, MIDC, Dombivli (E), Maharashtra, India and Surface Modification Technologies Pvt. Ltd. Vasai Road, Dist.-Palghar, Maharashtra, India, have many areas of common interest. In some of these areas, the degree of mutual interest is such that considerable advantages may be gained from their pursuit on a collaborative basis. Collaboration will be established within the principles set out in the following sections, which will be reviewed by both parties at least every three years.

This memorandum concerns scientific collaboration entered into jointly by the K. V. Pendharkar College (Departments of Physics and Chemistry) and Surface Modification Technologies Pvt. Ltd.

II. Purposes, Scope and General Policies

A. Purposes

The purpose of this collaboration is to provide:

1. Means to increase the effectiveness of research by promoting close multidisciplinary collaboration between scientists and faculties associated with these two organizations.
2. Means to stimulate the training of graduate and post-graduate students and scientists/faculties to the many disciplines concerned in research.

B. Scope

The general area of interest of the collaboration will include all aspects of research, which are of mutual interest to the Departments of Physics and Chemistry of K. V. Pendharkar College and the Surface Modification Technologies Pvt. Ltd. In view of the purpose of the collaboration, participation in the collaborative program need not be limited by organizational affiliation of individual scientists but will be determined by the individual's ability to contribute to the mutual objectives of the participating organizations. In this regard, the collaboration will provide a means for identification and definition of new research projects, a center at which a continuing program may be conducted, and a means whereby visiting researchers may be supported.

Both the Parties agree to develop the following collaborative activities in the academic areas of mutual interest, based on equality and reciprocity.

1. Training of Under-graduate, Post-graduate and Ph. D. students.
2. Conducting collaborative research projects.
3. Conducting lectures and organizing symposia.



4. Exchange of academic information and materials.
5. Promoting collaboration in fields of mutual interest.
6. Framing of new courses at college level.

III. Composition

The collaboration involves two primary groups:

1. Regular faculty members and students of the Departments of Physics and Chemistry of K. V. Pendharkar College.
2. Scientists and Researchers from Surface Modification Technologies Pvt. Ltd.

IV. Follow-up mechanism

In order to achieve the best application of the present Agreement, the Parties will designate to Dr. Umesh Mhatre as a representative for Surface Modification Technologies Pvt. Ltd and Dr. K. R. Jagdeo from Department of Physics and Dr. B. T. Mukherjee from Department of Chemistry as a representative for Dombivli Shikshan Prasarak Mandal's K. V. Pendharkar College, will act as coordinators in the follow-up cooperation activities referred to in the present Agreement.

In order to achieve the best conditions in the application of the present Agreement, the Parties will establish a working group to be incorporated in the working plan.

V. Mutual and Separate Responsibilities of K. V. Pendharkar College (Departments of Physics and Chemistry) and Surface Modification Technologies Pvt. Ltd.

A. Financial and other responsibilities of Scientists, Faculties and Students:

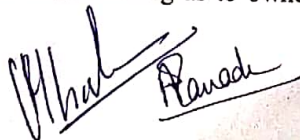
1. Each of the participating organization is fully responsible financially and operationally towards all expenditures, when collaborative will be at organization level.
2. The costs of secretarial and clerical personnel, technicians and other scientific support personnel will be borne by the employer of such personnel. However, where mutually advantageous, costs of support personnel may be shared by the users on an equitable basis or one organization may enter into an agreement with the other, subject to the regulations of each, for the supply of certain services, supplies or equipment.
3. Expenses on experimental work, travel etc. to be managed by individual student, in case of work leading to Ph.D. or other degrees unless otherwise as defined in the collaborative and funded projects.
4. Curriculum training of the students for pursuing their degree will remain a responsibility of the college.

B. Space and Facilities

1. Working Space and infrastructure required for the project should be provided by the respective organizations.
2. Joint use of each other's equipment and facilities is intended by both parties to this agreement as long as such cooperative use does not disrupt the normal programs of either party.

C. Ownership of Intellectual Properties

The collaborative research activities under MoU results in any potential for intellectual properties, both organization shall seek an equitable and fair understanding as to ownership and property interests that may if arise.



D. Insurance and Liability

The Parties will make sure that their participant Scientists/Faculties/Students in the cooperation activities will count on a health insurance, personal injury and life insurance so that in case of a resulting disaster that calls for a disaster recovery plan it might be covered by the corresponding insurance institution.

Safety and insurance of personnel of Surface Modification Technologies Pvt. Ltd. travelling and working in K. V. Pendharkar College, Dombivili, will be taken care by Surface Modification Technologies Pvt. Ltd.

The Parties will not have liability for damages that might be caused as a consequence of *force majeure* or fortuitous acts, particularly for administrative or academic work stoppage.

E. Amendment and Termination of MoU

1. This MoU may be amended or modified by a mutual written agreement signed by the representatives of both the organizations.
2. This MoU is valid for a period of 10 years (Ten years) from the date of signing by the representatives of both the organizations. This MoU shall be renewed after being reviewed and renegotiated by both the organizations.
3. This MoU may, at any time during its period of validity, be terminated by one of the organizations upon prior notice to the other in writing not later than six months before the termination date.

F. Commission of MoU

The MoU comes into force from the date of signing the said MoU, that is, 25th day of November 2017.


Dr. (Mrs) Anuradha K. Ranade
Principal
DSPM's K. V. Pendharkar College,
MIDC, Dombivili East,
Dist. Thane, 421203,
India.
(E-mail: kvpcollege@hotmail.com)




Dr. Umesh Mhatre
Managing Director
Surface Modification Technologies Pvt. Ltd.,
9, 10, 11 Emerald Premises,
Behind Modi Hyundai, Walid Phata,
Vasai Road-East, Dist. - Palghar-401208,
India. (Email-umhatre2014@gmail.com)





DOMBIVLI SHIKSHAN PRASARAK MANDAL'S
K. V. PENDHARKAR COLLEGE
ARTS, SCIENCE & COMMERCE



Plot No. SPL-4, Opp. MIDC Office, Dombivli (E) - 421 203 Dist. Thane.
Telefax : (0251) 2473282 • E-mail : kvpcollege@hotmail.com

To whom so ever it may concern

Extension of MoU between K. V. Pendharkar College and Monad Nanotech Pvt. Ltd.

We jointly state that the MoU signed between K. V. Pendharkar College, Dombivli and Monad Nanotech Pvt. Ltd. Powai, Mumbai dated January 20, 2010 is extended for next 10 (Ten) years from the date of expiry of the initial MoU.

The other terms and conditions of the MoU remains same as those of the previous MoU dated January 20, 2010.


Dr. (Mrs) Mansi. P. Phanse
I/C Principal
K. V. Pendharkar College
Dombivli, 421203
India.

June 06, 2013.



For Monad Nanotech Pvt. Limited,


Authorised Signature/Director
Dr. (Mrs.) Madhuri Sharon
Managing Director
Monad Nanotech Pvt. Ltd.
Adi Shankaracharya Marg
Powai Mumbai.
India.

Monad Nanotech Pvt. Ltd.
A-702, Chawani Towers,
Powai, Mumbai-400 076





DOMBIVLI SHIKSHAN PRASARAK MANDAL'S
K. V. PENDHARKAR COLLEGE
ARTS, SCIENCE & COMMERCE



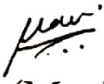
Plot No. SPL-4, Opp. MIDC Office, Dombivli (E) - 421 203, Dist. Thane.
Telefax : (0251) 2473282 • E-mail : kvpcollege@hotmail.com

To whom so ever it may concern.

Extension of MoU between K. V. Pendharkar College and Monarch Catalyst Pvt. Ltd.

We jointly state that the MoU signed between K. V. Pendharkar College, Dombivli and Monarch Catalyst Pvt. Ltd. MIDC Dombivli dated January 19, 2010 is extended for next 10 years (Ten) from the date of the expiry of the initial MoU.

The other terms and conditions of the MoU remains same as that of the previous MoU dated January 19, 2010.


Dr. (Mrs.) Mansi P. Phanse
I/C Principal
K. V. Pendharkar College,
Dombivli, 421203
India.


P. Satishkumar
Sr. Manager - HR
Monarch Catalyst Pvt. Ltd.
Dombivli, 421203
India.

June 06, 2013.

