

Pillai HOC College of Arts, Science and Commerce

Pillai HOCL Educational Campus, Rasayani NAAC Accredited with A+ Grade in Cycle 2 (ISO 9001: 2015 Certified)



# 3.2.1. QLM.

Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

(A.Y. 2022-23)



PRINCIPAL

Mahatma Education Rociety's
Pillar HOC Catego of
Arts, Selence & Commerce
Pillat HOC Educational Campus
Placeyork, Takuka Khalapur
Diet Ratgod, Ptr.- 410 207





फक्त प्रोत्तावज्ञासाठी उर्राक विक्री नोंदवही अनुक्रमांक मुद्रोक विकत पेणाऱ्याचे नाव हरते असल्यास ह्यांटे चंद्र, पना र मि नगुर्व द्राय होते सर होत रामक्षाः वस्ते पनवेल अनुष्यो - एउने ३ १० - १७ व कारमहारी स्थान पुर्वत छोट् । जन्मची त्यच धारणानांत्री पुरांक जोटी केनापनान

MEMORANDUM OF UNDERSTANDING (MoU)



Between Research and Innovation Cell, Mahatma Education Society's Pillai HOC College of Arts, Science and Commerce, Rasayani

> And Dnyan Foundation, Nagpur



College Code: 870

### PILLAI HOC COLLEGE OF ARTS, SCIENCE & COMMERCE

Pillai HÖČL Educational Campus, HOC Colony, Rasayani, Via. Panvel, Dist. Raigad. Pin 410207 Tel: 02192 - 669000 / 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09

Affiliated to the University of Mumbai, Approved by Government of Maharashtra

This Memorandum of Understanding (MoU) is entered into on the 30<sup>th</sup> of March 2022 Between Pillai HOC College of Arts, Science and Commerce, Rasayani run by Mahatma Education Society having its registered office at Pillai HOCL Educational Campus, HOC Colony, Mohopada, Rasayani, hereinafter referred to as "PHCASC" and Dnyan Foundation, an NGO which is located at Nirmiti Elite, Near Rama Nagar, Badil Kheda, Nagpur, Maharashtra 440027 hereinafter referred to as "Dnyan Foundation" with regards to conducting of various research and patent related activities/workshops to be functional for a period of three academic years from this day on(till 30<sup>th</sup> March 2025).

#### General Objective:

This Memorandum of Understanding (MoU) between PHCASC and Dnyan Foundation is to stimulate and facilitate the development of collaborative and mutually beneficial research programmes and activities which serve to benefit the students and faculty in the area of research.

### Areas and Modes of Collaboration

Mahatma Education Society's Pillai HOC College of Arts, Science and Commerce, Rasayani and Dynan Foundation, Nagpur, have agreed that in support of their mutual interest in providing practical educationsystem and developing research skills of students, both the parties will have following understandings:

- 1. To promote research work in participating institutions.
- 2. To exchange information on research programmes.
- 3. To provide practical education system.
- To develop research skills of students and faculty members.
- 5. To organize events, seminars, conferences or workshops on research and patents.
- 6. To promote research culture among students and faculty members.

#### Amendments/Modifications

This MoU may be amended or modified by a written agreement signed by the representatives of both the institutes.

#### Adherence of Laws

Participating teaching staff and students involved in any activities under this memorandum mustadhere to the law, rules and regulations of the host institutions.

#### **Legal Effect**

Nothing in this Memorandum shall be construed as creating any legal relationship between the parties. This Memorandum is a statement of intent for mutually beneficial collaboration. In case, there is a dispute relating to any aspect of academic cooperation, the parties will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

#### Duration of the MoU

This MoU, unless extended by mutual written consent of the institutes, shall expire in three years after the effective date specified in the opening paragraph. However, on review, the MoU may be renewed by mutual consent.

This MOU is at will and may be modified by mutual consent of both the parties. This MOU shall become effective upon signature by the authorized signatories from both the parties and will remain in effect until modified or terminate by any one of the parties or by mutual consent.

#### Signed

By **Dr. Ajinkya Ravindra Kottawar** Founder & President of Dnyan Foundation

(Signature)

THE PARTY OF THE P

Signed

By Dr. Lata Menon

Principal

Pillai HOC College of Arts, Science and Commerce, Rasayani

(Signature)

Mohama Education Society's
Pilital's HOC College of Arts
Scient - Parti Commerce
HOC Educational Campus,
Rasayani, Tal. Knalapur,
Dist. Raiyad, PIN - 410 207



The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

#### Bitcoin Price Quick Prediction Using AI, DL and ML

Name	Nationality	Address
Dr. Monica Shrivastava (Associate Professor)	AN INDIAN NATIONAL	FACULTY OF MANAGEMENT STUDIES, SHRI SHANKARACHARYA TECHNICAL CAMPUS, BHILAI, CHHATTISGARH, 490020, INDIA. Mobile: 9893081129 Email id: monicasv.03@gmail.com
Prof.(Dr.) Prashant Singh	AN INDIAN NATIONAL	DEPARTMENT OF INFORMATION TECHNOLOGY, DR. AKHILESH DAS GUPTA INSTITUTE OF TECHNOLOGY & MANAGEMENT, NEW DELHI, INDIA.
Veer Bhadra Pratap Singh, (Assistant Professor)	AN INDIAN NATIONAL	DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, KRISHNA ENGINEERING COLLEGE, 95, LONI ROAD, BETWEEN MOHAN NAGAR & AIR FORCE STATIONHINDON, GHAZIABAD, UP- 201007, INDIA.
Dr. Lata Menon	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE, RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA. E-mail: latakm@mes.ac.in
Mr. Ravi Bari	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE, RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.
Ms. Neethumol K G	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE, RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.

PROVISIONAL	COMPLETE
The following specification describes the	The following specification Invention. Particularly describes the invention and the manner in which it is to be performed.

The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

#### **Cancer Therapeutics Using Nanoparticles Based on Warburg Effect.**

Name	Nationality	Address
		MAHATMA EDUCATION SOCIETY'S
		Pillai HOC College of Arts, Science and
		Commerce, Pillai HOCL Educational
		Campus, Rasayani, Taluka Khalapur, Dist,
	AN INDIAN	Raigad, Maharashtra 410207
	NATIONAL	e mail: remyagopal@mes.ac.in
		Aadhar no: 776865444464
		PAN no: AUAPR8471L
		mo no: 9958624503
Ms. Remya Madan Gopal		dob: 03/01/1982

PROVISIONAL	COMPLETE
The following specification describes the	The following specification Invention.  Particularly describes the invention and the manner in which it is to be performed.

The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

Device to Detect the Fruit and Vegetable Classification and fruit (Apple) Disease.

Discuse.			
Name	Nationality	Address	
	Applicant		
MAHATMA EDUCATION SOCIETY,S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
	Inventors		
Dr. Jayanta Kumar Behera	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
Dr. Sapana Chilate	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	

PROVISIONAL	COMPLETE
The following specification describes the	The following specification Invention.  Particularly describes the invention and the manner in which it is to be performed.

The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

#### **English Speaking Error Detector AI- Based Mobile Chip.**

Name	Nationality	Address	
	Applicants		
Dr. Bhavna Dave (Assistant Professor)	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF EDUCATION & RESEARCH, NEW PANVEL(W), SECTOR 8, KHANDA COLONY, NAVI MUMBAI, MAHARASHTRA- 410206, INDIA	
Mr. Hardik Dave (Assistant Professor)	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOCL COLLEGE OF ARTS, COMMERCE & SCIENCE, PILLAI HOCL EDUCATIONAL COMPLEX, RASAYANI, TALUKA PANVEL, MAHARASHTRA 410207	

#### REAMBLE TO THE DESCRIPTION

PROVISIONAL	COMPLETE
The following specification describes the	The following specification of the Invention. Particularly describes the invention and the manner in which it is to be performed.

### **Complete Specification**

### FORM 2 THE PATENT ACT 1970 & The Patents Rules, 2003 COMPLETE SPECIFICATION

#### (See section 10 and rule 13)

### TITLE OF THE INVENTION:

FLSA-System: Fifth-level Authentication System (Mobile, Laptop, PC, Locker, Etc.)

Name	Nationality	Address
Applicant		
MAHATMA EDUCATION		MAHATMA EDUCATION SOCIETY'S PILLAI HOC
SOCIETY'S PILLAI HOC	AN INDIAN	COLLEGE OF ARTS, SCIENCE AND COMMERCE
COLLEGE OF ARTS,	NATIONAL	RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
SCIENCE AND COMMERCE		MAHARASHTRA 410207, INDIA.
	Inv	entors
DR. LATA MENON	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
		MAHARASHTRA 410207, INDIA.
		E-mail: latakm@mes.ac.in
LALIT MAHATO	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
		MAHARASHTRA 410207, INDIA.
YASH KHOPKAR	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
		MAHARASHTRA 410207, INDIA
PRIYA SHARMA	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
		MAHARASHTRA 410207, INDIA.
MS. DARSHANA WAJEKAR	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
	437 737 737 437	MAHARASHTRA 410207, INDIA.
MR. RAVI BARI	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD
		MAHARASHTRA 410207, INDIA.

**Complete Specification** 

The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

#### **Intelligent Process and Methods for Casein Determination in Cow-milk only**

Name	Nationality	Address	
Applicant	Applicant		
MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
Inventors		,	
Dr. Archana Bhagwat	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
Ms. Krutika Mahendra Malkar	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
Mr. Abhishek Jeevan Ingole	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
Ms. Srushti Satyawan Sawant	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	
Dr. Vishakha Telgote	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.	

PROVISIONAL	COMPLETE
The following specification describes	The following specification Invention. Particularly describes the invention and the manner in which it is to be performed.

The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

Isolation and Characterization of Bioactive Unique Complex Compounds from Stembark Advanced Extract of Uapaca Pilosahutch.

Name	Nationality	Address
Dr. Ishan Y Pandya	AN INDIAN NATIONAL	DSc. Hc., PhD, FISCA, FBSS, FSIESRP, FRJSIMRF Fr. Ecologist, Gujarat Ecological Education and Research (GEER) Foundation, Indroda Nature Park, P.O. Sector-7 Gandhinagar-Gujarat (382007), India.
Mr. Ketankumar B. Mewada (Asst. Professor (Botany))	AN INDIAN NATIONAL	Government Science College. Veer Narmada South Gujarat University, Valod, Dist-Tapi, Gujarat, India.
Dr. (Miss) Revati M Wahul	AN INDIAN NATIONAL	Modern Education Society's College of Engineering, Pune, MH, India.
Dr. Lata Menon	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.
Dr. Archana Bhagwat	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.
Dr. Vishakha Telgote	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.

PROVISIONAL	COMPLETE
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The Patents Rules, 2003

#### **COMPLETE SPECIFICATION**

(See section 10 and rule 13)

#### TITLE OF THE INVENTION:

#### Power Generation from Sea Wave and Create Renewable Energy.

Name	Nationality	Address
Asanbad Srinivasa Rao (Assistant Professor)	AN INDIAN NATIONAL	Mechanical Engineering Department, JP TOWERS FLAT NO 201, RAMAVARAPADU, VIJAYAWADA-521108, INDIA.
Dr. Archana Shirbhate Associate professor	AN INDIAN NATIONAL	Electrical Engineering Department, Anjuman College of Engineering and Technology Nagpur, MH, India.
Dr. Lata Menon	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.
Dr. Jayanta Kumar Behera	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.
Dr. Sapana Chilate	AN INDIAN NATIONAL	MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ARTS, SCIENCE AND COMMERCE RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD MAHARASHTRA 410207, INDIA.
Prof. Umakant D.Butkar	AN INDIAN NATIONAL	Nashik, Maharashtra, India.

PROVISIONAL	COMPLETE
The following specification describes the	following specification Invention.  Particularly describes the invention and the manner in which it is to be performed.

The Patents Rules, 2003

#### COMPLETE SPECIFICATION

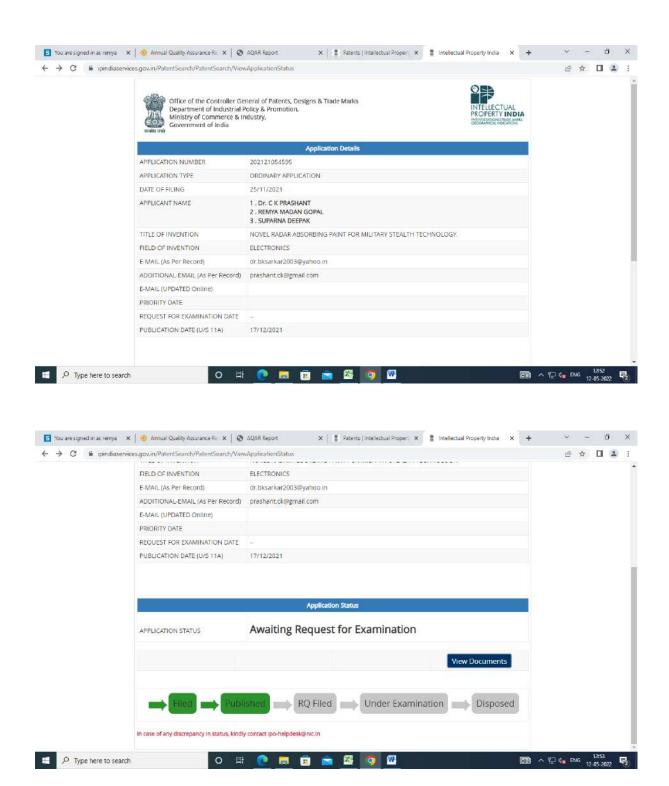
(See section 10 and rule 13)

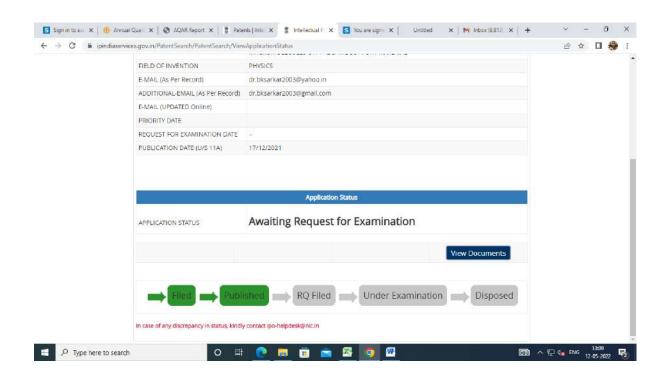
#### TITLE OF THE INVENTION:

**SV-Calculator**: Scientific Voice Calculator.

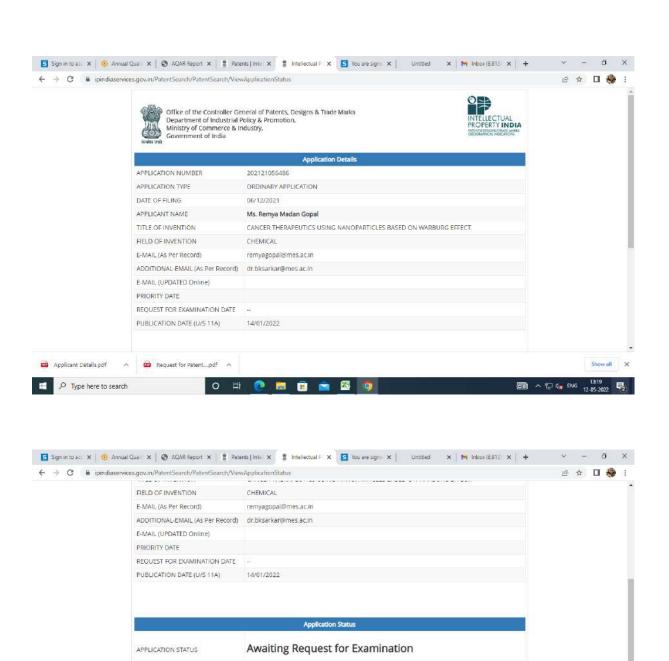
Name	Nationality	Address		
Applicant				
MAHATMA EDUCATION		MAHATMA EDUCATION SOCIETY'S PILLAI HOC		
SOCIETY'S PILLAI HOC	AN INDIAN	COLLEGE OF ARTS, SCIENCE AND COMMERCE		
COLLEGE OF ARTS, SCIENCE	NATIONAL	RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD		
AND COMMERCE		MAHARASHTRA 410207, INDIA.		
Inventors				
Ms. NEETHUMOL K G	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC		
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE		
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD		
		MAHARASHTRA 410207, INDIA.		
ROSHINI SINGH	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC		
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE		
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD		
		MAHARASHTRA 410207, INDIA.		
PRERNA TUPE	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC		
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE		
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD		
		MAHARASHTRA 410207, INDIA.		
RAVI BARI SIR	AN INDIAN	MAHATMA EDUCATION SOCIETY'S PILLAI HOC		
	NATIONAL	COLLEGE OF ARTS, SCIENCE AND COMMERCE		
		RASAYANI TALUKA KHALAPUR DISTRICT RAIGAD		
		MAHARASHTRA 410207, INDIA.		

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