



MEMORANDUM OF UNDERSTANDING

For Special Purpose

BETWEEN

UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA - LAS PIÑAS

And

R D ENGINEERING COLLEGE

This MOU and BROAD Understanding is created between **UNIVERSITY OF PERPETUAL SYSTEM DALTA - LAS PIÑAS** and **R D ENGINEERING COLLEGE**. Whereas both Parties agrees to,

1. To create, cooperate and focus their efforts towards creation of intangible and tangible knowledge products. This includes research paper, book chapters, innovation and best practices.
2. To conduct faculty development program.
3. To share technical know hows for betterment of humanity.
4. To participate in conference and collaborate for joint conference/workshops/interactions/ teacher's training program.

This understanding is working arrangement between two parties and beyond any legal ramification, nature, style, content and spirit of this collaborative document is termed as MOU and beyond the scope/reach of any legal proceedings in any part of the world. This understanding will be effective and valid for one (1) year upon the date of signing.

Authorized Signatory

For **UNIVERSITY OF PERPETUAL HELP
SYSTEM DALTA - LAS PIÑAS**

Authorized Signatory

R D ENGINEERING COLLEGE

**Director
R.D. Engineering College
Duhai, Ghaziabad**



Pankaj Singh <p.mnavy@gmail.com>

Gratitude and Appreciation

1 message

Arnaldo De Guzman <arnaldo.deguzman@perpetualdelta.edu.ph>

Tue, Jan 3, 2023 at 12:43 PM

To: "p.mnavy@gmail.com" <p.mnavy@gmail.com>

Cc: "research@rdec.in" <research@rdec.in>

Dear Dr. Pankaj,

I wish to extend my heartfelt appreciation and gratitude for your kind invitation to present at the "Recent Innovation in Science, Technology & Humanities (RISTH-22)" Conference. The opportunity to be able to present internationally was indeed an experience I would treasure. I look forward to more collaborations and partnerships with your College.

With the highest regard for you, I remain

A helper of God,

--

Arnaldo S. De Guzman, STh.D.
School Director
University of Perpetual Help System DALTA - Las Pinas
Alabang-Zapote Road, Pamplona 3,
Las Pinas City, 1740 Philippines



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Director
R.D. Engineering College
Duhai, Ghaziabad

CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR ITS PREPARATION IN INDIAN ROAD CONTEXT WITH THEIR ECONOMICAL & FINANCIAL ASPECT

¹Dr Shilpi Singh, ²Dr Parsanjeet Kumar, ³Dr Uravasi Makkar, ⁴Arnaldo S. DE GUZMAN, ⁵Dr Sadhna Gupta, ⁶Mr. Vivek Tyagi, ⁷Dr Pankaj Kumar Singh

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ABSTRACT

Present Research invention relates to a castable and curable magnetic cement composition with hard magnetic properties with cost effective and financial measure. Magnetic particles added to the cement mixture improved both mechanical and Magnetic Properties. A castable and curable magnetic cement composition, comprising, i) magnetic or magnetizable particle in the range of- 32-96%, ii) cement particles in the range of- 0.0027-2 μ m, iii) aluminosilicate particle in the range of- 32-46%; iv) a binding modifier in the range of; and v) a surface-active dispersing agent in the range of 0.1-4% by weight. The method for preparing the cement composition comprises the following steps, i) mixing the particles with dispersing agent to obtain a homogeneous mixture; and ii) blending the mixture with silica-bearing additive, followed by addition of potable water to obtain the cement composition.

Key word: - Concrete, Magnet, Cement, Magment, mechanical and magnetic properties.

BACKGROUND

Research involves slabs made with magnetizable concrete instead of just the plain concrete that we all know. There's an embedded coil, and we circulate a high-frequency current, and we generate a magnetic field. That field is then picked up by a compatible coil on an electric vehicle—so that vehicle's retrofitted with a coil and converts it back to

REPUBLIC OF SOUTH AFRICA
 PATENTS ACT, 1978
 DECLARATION AND POWER OF ATTORNEY
 (Section 30 - Regulation 8, 22(i)(c) and 33)

OFFICIAL APPLICATION NUMBER		LODGING DATE		AGENT'S REFERENCE NUMBER
21	01	22		2625LPS
71	FULL NAME(S) OF THE APPLICANT(S)			
	(1) Noida International University (2) R D Engineering College (3) University Of Perpetual Help System Dalta (4) Netaji Subhash University of Technology (5) IIMT College of Management (6) Prism Johnson Limited (7) Dr. Shilpi Singh (8) Dr. Parsanjeet Kumar (9) Dr. Pankaj Kumar Singh (10) Arnaldo S. De Guzman (11) Dr. Sadhana Gupta (12) Dr. Prerna Gaur (13) Yogesh Gupta (14) Shruti Singh (15) Sachin Singh (16) Subham Biswal			
72	FULL NAME(S) OF THE INVENTOR(S)			
	(1) Dr. Shilpi Singh (2) Dr. Parsanjeet Kumar (3) Dr. Pankaj Kumar Singh (4) Arnaldo S. De Guzman (5) Dr. Sadhana Gupta (6) Dr. Prerna Gaur (7) Yogesh Gupta (8) Shruti Singh (9) Sachin Singh (10) Subham Biswal			
EARLIEST PRIORITY CLAIM		COUNTRY CODE	NUMBER	DATE
		33	31	32
54	TITLE OF THE INVENTION			
	CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR			



R. D. ENGINEERING COLLEGE

GHAZIABAD (U.P.)

RISTH-22



1st International Conference

On

Recent Innovation in Science, Technology & Humanities

This is to certify that **Dr. DE Guzman**, has given an **Invited Talk** in the 1st International Conference on Recent Innovation in Science, Technology and Humanities (RISTH-22) held on 30th to 31st December 2022, organized by R. D. Engineering College, Ghaziabad, U. P., India.

Dr. Dharamveer Singh
Convenor & Head R&D
R.D. Engg. College

Dr. Sanjeev Sharma
Director
R.D. Engg. College

Director
R.D. Engineering College
Duhai, Ghaziabad

Dr. Rakesh Sharma
Chief Patron
R.D. Engg. College

Collaboration with University of Perpetual help System, Dalta with R D Engineering College

This collaborative research Agreement (Agreement) is entered into on April 1, 2023 between:

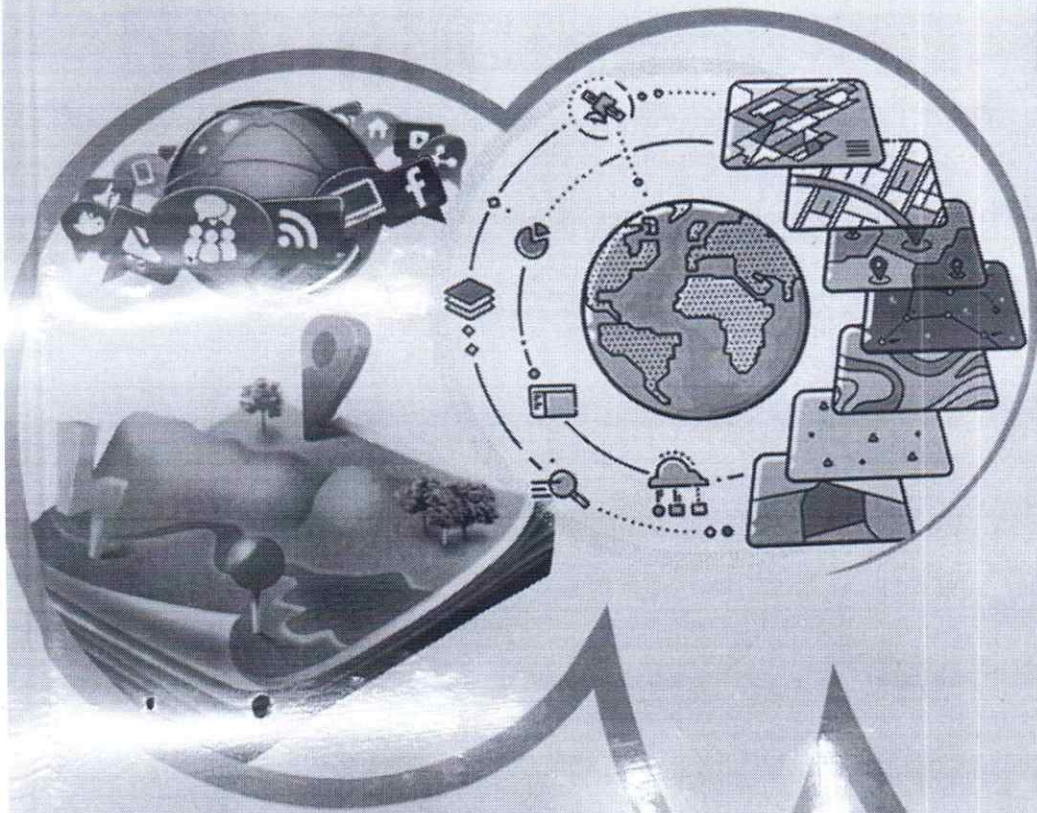
University of Perpetual Help System DALTA (hereinafter referred to as "UPHSD"), a private university incorporated in Philippines whose registered office is at Pamplona III, Alabang-Zapote Road, Las Pinas City, Metro Manila, Philippines 1740.; and R D Engineering College.

Whereas, the research program contemplated by this Agreement is of mutual interest and benefit to the University and to the Researcher, and will further the University's instructional and research objectives in a manner consistent with its status as a non-profit, tax-exempt, educational institution, the parties agree.

1. As per the agreement we participated in the
 - a. International Conferences which was held in R D Engineering College in 30-31st Dec'2022 and 28th-30th June'2024.
 - b. Published Indian Patent **CURCUMIN COMPOSITION WITH ENHANCED BIOAVAILABILITY, ANTI-DIABETIC, ANTICANCER ACTIVITY**(File No- 202211067986)
 - c. Published South African Standard Patent **CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR PREPARATION THEREOF**(Patent No-**2022/13139**)
 - d. **Published many books along with Dr. Guzman and Dr Lorena C.ILagan i.e.**
 - i. **Geoinformatics in Theory & Practice**
 - ii. **Innovation in Sustainable Energy & Cleaner Environment**
 - iii. **Brand Management**
 - e. Published Research Paper in Scopus and ABDC Journal etc i.e.
ABDC Journal -**CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR ITS PREPARATION IN INDIAN ROAD CONTEXT WITH THEIR ECONOMICAL & FINANCIAL ASPECT.**


Director
R.D. Engineering College
Duhai, Ghaziabad

Geoinformatics in Theory and Practice



Dr. Pankaj Kumar Singh
Dr. Sanjeev Singh
Lorena C. Ilagan


Director
R.D. Engineering College
Duhai, Ghazalabad

Dr. Pankaj Kumar Singh

Ph.D. Civil Engineering & M. Tech. Diversified Engineering
Director Research, R D Engineering College



Dr. Pankaj Kumar Singh is Ph.D. in Civil Engineering and M. Tech. in the Diversified Engineering Stream. He also holds a MBA. Dr Singh is Director Research in R D Engineering College, Ghaziabad. He also serves as Guest Professor in several countries like Philippines, Qatar etc. His research area of interest is Environmental Conservation & Sustainability, Biological Waste water treatment, Plant medicine, Crop recognition & monitoring, AI & Modeling and so on. He wrote 5+ books and book chapter in diversified field. His work is in the field of Patent and till now published more than 30+ national and

International Patent and Granted 10+ National and International Patent along with Professors/Researcher of US, Canada, UK, Russia, Syria, Philippines etc. as well as Published many Research Papers in reputed journals like MDPI (SCI), ESCI, ABDC Journal, Scopus, Springer, UGC-Care etc.

He also holds session Chair in many international Conferences in different countries like Las Vegas, New Jersey, Bali, Geneva, George Town (Australia). After all those achievements, Dr. Singh was awarded as Best Research Director in the field of Biological Wastewater treatment & Plant Medicine and many more awards.

Dr. Sanjeev Singh

B.Tech. in Civil Engineering
M.Tech. and Ph.D. in Geotechnical Engineering



Dr. Sanjeev Singh is B.Tech. in Civil Engineering and he had done his M.Tech. and Ph.D. in Geotechnical Engineering, (Geo-Environmental Engg) from IIT BHU. Presently, Dr. Sanjeev is Professor at KIET Group of Institutions, Ghaziabad.

He wrote 07 books and published more than 20 research paper in reputed journals. He published 10+ national and international patents.

L.ORENA C. ILAGAN, MS-ECE., PECE,
DEAN, College of Engineering
University of Perpetual Help System Dalta - Pinas, Philippines



Lorena Ilagan has finished her BS in Electronics and Communications Engineering at Mapua Institute of Technology and MS in Electronics Engineering at De La Salle University Manila. She is a candidate for graduation also at De La Salle University Manila taking PhD in Electronics Engineering.

In her profession as an academican, she was awarded the **Most Outstanding Dean by the DALTA Group of Companies** and now appointed as the Cluster Director for Technology Programs such as College of Engineering, Computer Studies, Maritime Education, School of Aviation and Technology Programs. She runs various projects for the University like the ALTA I-Hub Project Director and Program Integrator of Digitech Program.



IV Gardeners Incorporation

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Director
R.D. Engineering College
Duhai, Ghaziabad



Dr. Shilpi Singh

Associate Professor
Noida International University



Dr. Shilpi Singh with Ph.D. in management is Associate Professor at Noida International University, Greater Noida. She obtained her MBA from Barkatullah University, Bhopal (M.P.). She also holds a M.Phil., M.A. (English) and B.Ed. degree.

Besides serving as core faculty of marketing and marketing specialization subjects from more than last 20 years, she is involved in serving various management institutes as a visiting professor in Philippines and other countries also. She is involved in guiding many research projects in management as well as in designing a variety of course material on management topics. She is author of many books like Service Marketing, Sales and Distribution management, Brand and Product Intelligence etc. In her books, co-authors are Professors from other countries too. Dr. Shilpi has a rich experience of research, training and consultancy and published and granted more than 10 International (South Africa, UK, Russia, Syria, Philippines etc.) and National Patent. She also published many research papers in reputed journals like MDPI(ESCI), SCOPUS, UGC-CARE etc. She has been awarded with Employee Excellence Award by Institute of Professional Excellence and Management.

Dr. Arnaldo S. De Guzman

STh.D.



Dr. Arnaldo S. De Guzman dedicates himself in the fields of Philosophy and Theology specializing in Moral Philosophy and Moral Theology with the experience of more than 30 years.

He finished his Doctorate in Sacred Theology and Licentiate in Sacred Theology from the Pontificia Universita' della Santa Croce in Rome, Italy. Bachelor in Sacred Theology and Licentiate in Philosophy from the University of Santo Tomas in Manila, Philippines.

Dr. De Guzman has an experience of more than 30 years as a professor and administrator in the Higher Education Universities. He is a professor at the University of Perpetual Help System DALTA, University of Perpetual Help Laguna and Dr. Jose G. Tamayo Medical University teaching Philosophy, Bioethics, Business Ethics, Filipino Christian Living among others.

Dr. De Guzman is also a University Administrator having served as a School Director for almost 20 years at the University of Perpetual Help Laguna - GMA Campus, University of Perpetual Help System DALTA Calamba Campus and at present at the University of Perpetual Help System DALTA — Las Pinas Campus.



IV Gardners Incorporation

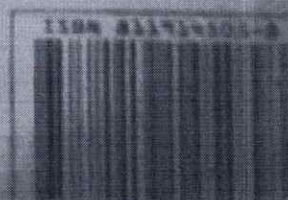
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Director
R.D. Engineering College
Dubai, Ghaziabari





R D Engineering College, Ghaziabad

Under the Aegis of IQAC

Organizing



International Conference on Recent Trends in Computer Science, Engineering, and Management

Venue - Conference Hall, R D Engineering College, Ghaziabad

Website : www.rdec.in, E-Mail : info@rdec.in

Date - : 28-30th June 2023



CHIEF GUEST

Dr. Kumar Krisher
Former Principal Chief Technologist
Johnson Space Centre
NASA, USA



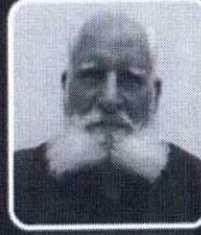
CHIEF PATRON

Smt. Nutan Sharma
Hon'ble Chairperson
R D Engineering College
Former Principal Chief Commissioner
of Income Tax



CHIEF PATRON

Dr. Rakesh Sharma
Hon'ble President
R D Engineering College



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Wing Cdr K K Tiwari (Retd.)
Adviser
R D Engineering College



PATRON

Mr. Shaaswal Sharma
Vice President
R D Engineering College



PATRON

Dr. Sanjeev Sharma
Director
R D Engineering College



CHIEF COORDINATOR

Dr. Pankaj Kumar Singh
Director - Research
R D Engineering College



Convener

Dr. Dharamveer Singh
Head Research & Development
R D Engineering College

KEY NOTE SPEAKERS



Prof. Ajay Prakash Mittal
Ex- Member Secretary
AJCTE, New Delhi



Dr. L N Palani
Former Professor
RARET Allahabad
Ex- Director, G & P, Uttarakhand



S N Singh
IPS Retd. Chief Commissioner of
Forestry Department of Korea and
Climate Change UN



Mr. Hemant Kumar Singh
Senior Business Manager
IBM (India) Pvt Ltd,
Noida



Dr. Sarbjit Kaur
Associate Professor, Guru Nanak
College of Education, Dabwali,
Punjab



Dharmaj Singh
Sr. Engineer Service delivery
department, Laban, Qatar



Nagesh Singh
Senior Project Manager
New Delhi, Delhi



Dr. By Gicman, Arshad
Director
MPROD, Philippines



Dr. Shalindra Bhartiya
Senior Cardiorespiratory
Med (R.K. Dahi)



Dr. Ravi Shankar Singh
Post Doctoral Scientist
University of Utah USA



Dr. Indraj Chandra
PhD - University of Arizona
Post Doc - University of Nebraska
USA



Pooja Arora
Surveys/Guide and
Research Branch/Gover
of India

Director
R.D. Engineering College
Duhai, Ghaziabad

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DR. AMOR DE TORRES
Day 2 EDUCATION RESOURCE PERSON



DR. SONNY COLOMA
Day 3 GOVERNMENT RESOURCE PERSON

SCAN TO REGISTER



June 14 to 16, 2023
9:00 AM to 12:00 NN

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Dialogic OD Registration Form

Director
R.D. Engineering College
Duhai, Ghaziabad

Sign up

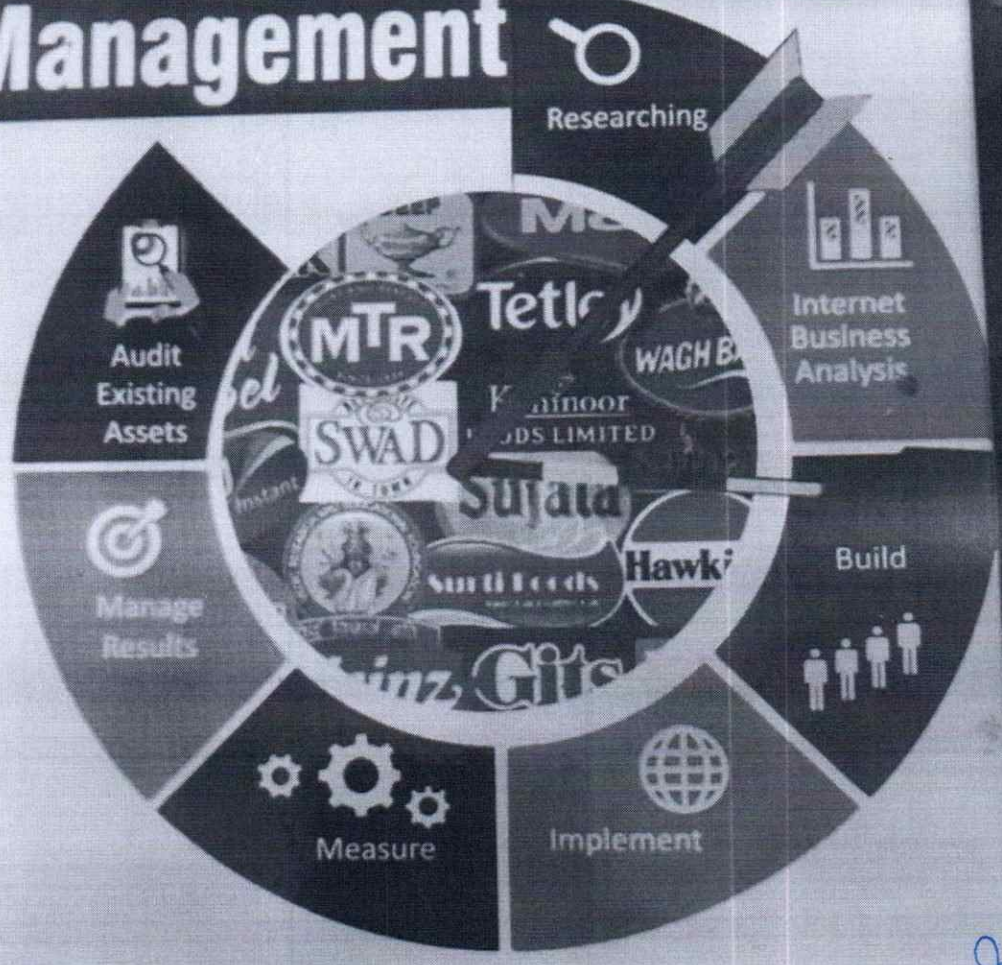
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First Edition

Management



Shilpi Singh
Director
R.D. Engineering College
Duhai, Ghaziabad



Dr. Shilpi Singh
Dr. Arnaldo S. De Guzman