

***Abstract Proceedings
of***
***INTERNATIONAL CONFERENCE ON SUSTAINABLE AND DEVELOPMENT
METHODS IN BASIC SCIENCES, ENGINEERING TECHNOLOGIES AND
MANAGEMENT RESEARCH METHODS
(ICSDMBSETMRM – 2016)***

Date: 22nd October 2016

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MESSAGE



I am delighted to know that Anveshana Educational and Research Foundation is organizing "**International Conference on Sustainable and Development Methods in Basic Sciences, Engineering Technologies and Management Research Methods (ICSDMBSETMRM-2016)**" to present the latest Technological innovations to the Academicians and Research Students. This conference will bring the talents of the students in to glare of publicity of the Society.

I strongly believe that Education is fundamental for the steady growth of economy and improvement of standards of living. This International Conference will bring the Academicians and Researchers from different organizations together where they can exchange their views and knowledge in their respective areas. It enables the researchers to get to know the progress in their respective areas of research and build up the confidence to face the global competition. This conference provides an opportunity to share ones experience and expertise with fellow delegates.

I congratulate Anveshana Educational and Research Foundation for organizing this conference and wish them a success in their endeavors.

A handwritten signature in blue ink, appearing to read "B. P. RAO".

DR. B. PRABHAKARA RAO

Professor of Electronics and Communication Engineering
Rector & Former Vice Chancellor
Jawaharlal Nehru Technological University, Kakinada

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MESSAGE



At the outset I would like to congratulate Anveshana Educational and Research Foundation (AERF) for provide a platform at International Level for Researchers, Academicians, professionals, Engineers and also for students by giving an opportunity to share their research ideas and results on various domains by organizing an International Conference entitled - "**Sustainable and Development Methods in Basic Sciences, Engineering Technologies and Management Research**" (**ICSDMBSETMRM – 2016**) on 22nd October 2016. And as rightly quoted by AERF that "**there is no limit for imagination**" as there tag line are providing a rarest chance where the Research Scholars, Academicians, Practitioners from different domains (Engineering, Basic Sciences and Business Management) attending the conference at one place on the same dais at the same time.

On this occasion I would like to appreciate the management of **Aditya Global Business School (Aditya Group of Educational Institutions)** and **AERF** on joining hand for creating a path for bright future of India in these areas. I hereby express my best wishes to all the participants and resource persons towards successful deliberations and also my best wishes to the organizers for a successful conference.

Dr. G. SRINIVASA RAO

Professor & Principal
Aditya Institute of PG Studies
Surampalem

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MESSAGE

Teacher – A Permanent Student

Researcher- A Constant Learner

Industrialist- A Dynamic Executor



Change is inevitable in every aspect of life and society. But to make positive change in the society, the Teacher has to upgrade his knowledge, as a student, from the ongoing research and developments through the researchers and industrialists. This is possible only by SHARING of knowledge, experience of various stake holders through lectures, deliberations and discussions at various platforms to meet the challenges posed by rapid changes occurring currently.

In this context, the **ICSDMBSETMRM-2016**, INTERNATIONAL CONFERENCE ON SUSTAINABLE AND DEVELOPMENT METHODS IN BASIC SCIENCES, ENGINEERING TECHNOLOGIES AND MANAGEMENT RESEARCH METHODS is a timely effort by AERF and I heartily congratulate Anveshana Educational and Research Foundation for it. I am sure, this conference initiates a platform for academicians, researchers and industry practitioners to share discuss and disseminate their insight & research findings related to the recent trends in the cited fields. It also encourages the fraternity to come out with a number of valuable practices for the economies to face the change proactively and successfully.

I am pleased and feel honored to be a part of this Inter National Level Conference, **ICSDMBSETMRM – 2016**, and I congratulate Anveshana team members for their team work and I Wish AERF best of luck for the success of this mega event.

DR. P. V. SURYA PRAKASH
Principal
Pydah College of Engineering
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MESSAGE



It gives me an immense pleasure that Anveshana Educational and Research Foundation is organizing the **International Conference on Sustainable and Development Methods in Basic Sciences, Engineering Technologies and Management Research Methods (ICSDMBSETMRM-2016)** on 22nd October 2016.

I hope the International Conference would be a platform for Academicians, Professors and Students related to Engineering, Basic Sciences and Management from different places to exchange and experience new ideas and applications and provides an opportunity to establish educational, business and research relations among themselves.

I wish the conference a grand success and hope that Anveshana Educational and Research Foundation would conduct many more programs of this kind in the future

DR.P G.RAMANUJAM

Principal
Rajamahendri Institute of Engineering and Technology
Rajahmundry

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MESSAGE



Greeting to all.... Anveshana Educational and Research Foundation understand the social relevance of research and its contribution in developing a body of knowledge and therefore give immense importance to the research output. In order to encourage the researchers in various fields relating to Engineering, Basic Sciences and Management, Anveshana Educational and Research Foundation has been organizing conference with different contemporary themes on the regular basis. A saying goes like this – Ordinary things done in an extraordinary way make people great. I hope that the deliberations in the conference will help researchers from academies and industry and the conference will provide a platform for initiating collaborative research projects. I wish this Conference a fabulous success.....

At a time when global dynamics are becoming ever complex, researchers are chasing super and ultra-specializations. In this context, the "**International Conference on Sustainable and Development Methods in Basic Sciences, Engineering Technologies and Management Research Methods (ICSDMBSETMRM-2016)**" is a wonderful platform for various stakeholders of society viz. academicians, researchers, consultants and others to share their views, exchange and disseminate their knowledge. I must say that one shall appreciate —Anveshana Educational and research Foundation for choosing such an important theme for the International Conference and for their efforts to make it as a reality. I hope and wish that all the participants will not only disseminate their research knowledge but also acquire some and become better learners by the end of the conference.

S. SAI SIVA RAMA KRISHNA

Director
MBA Programme
Ideal College of Arts & Science
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Date: 22nd October 2016

MESSAGE



I am very much delighted to know that **Anveshana Educational and Research Foundation** is organizing an “**International Conference on Sustainable and Development Methods in Basic Sciences, Engineering Technologies and Management Research Methods (ICSDMBSETMRM-2016)**” on 22nd October, 2016.

Exponential Growth of Technology is playing a significant role for the overall development of any Nation. Sustainable development in Science & Technology addresses several challenges like energy consumption, waste production, public health, poverty, social exclusion, management of natural resources, loss of biodiversity, climate change, etc. In this context, bringing the academicians, researchers and industrialists together on a single platform for exchange of scientific and technological information for debate and dissemination of knowledge in the emerging fields of Science & Technology is very much essential. I wish the knowledge sharing sessions of this Conference will serve for this purpose and paves way for the technological innovations in Science & Technology.

I Congratulate **Anveshana Educational and Research Foundation** for organizing this International Conference on current and thought provoking theme. My best wishes to the participants, authors and members of the program committee of this **ICSDMBSETMRM-2016**.

DR. GOLLAPALLI NARESH

Professor of EEE
Pragati Engineering College
Surampalem

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Date: 22nd October 2016

MESSAGE



I am very much delighted to know that Anveshana Educational and Research Foundation is organizing a International conference on Sustainable and development methods in Basic Sciences, Engineering Technologies and Management Research Methods on 22nd October, 2016. Anveshana Educational and Research Foundation is organizing series of conferences, seminars, workshops and training programs in the field of Engineering, Management, Commerce, Law and technical education. I congratulate AERF for providing a suitable platform to the researchers and planers to present their research findings and share their thoughts.

In the present era of globalization, the integration of knowledge of various sectors (like Technical education, social science, humanities and management etc,) is needed to address the challenges, Sustainable and development methods. The present conference ICSDMBSETMRM-2016 is a good platform to bring the researchers in the field of Engineering, Humanities, Social Science, Law, Commerce and Management together.

I hereby express by best wishes to all the participants and resource persons towards a successful deliberations and also my best wishes to the organizers for a successful conference.

DR.P.V.V. SATYANARAYANA

Assistant Professor
School of Management Studies
Jawaharlal Nehru Technological University, Kakinada

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MESSAGE



On behalf of **ICSDMBSETMRM-2016** Organizing committee, I am glad to inform you to the **International Conference on Sustainable and Development Methods in Basic Sciences, Engineering Technologies and Management Research Methods**. ICSDMBSETMRM continues the tradition of addressing issues of immediate and long term interest to researchers and engineers in developing various engineering systems through technological innovations. The aim of the **ICSDMBSETMRM-2016** has always been to provide an International forum for individuals from all over the world and to share and to discuss their innovative thoughts in the emerging trends in engineering application and basic sciences. These currently include topics in wireless sensor network, mobile computing and emerging trends in the management along with excellence management.

I wish you all a wonderful and exiting time here. At last we could say that at AERF.

The knowledge.....students surely have pleasure to receive.....

The masters.....are capable enough to make them believe.....

The goals.....students would find easy to achieve.....

DR. D. SUCHARITHA
Director - AERF

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GROWTH & DEVELOPMENT OF NBFC IN INDIA

[Paper Id - MGMT1001]

A Paper Presented by: ¹P.Sravan Kumar, ²K.Dinesh Reddy, ³A.Dhanunjaya

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ABSTRACT

NBFCs are emerging as an alternative to mainstream banking. Besides, they are also emerging as an integral part of Indian Financial System and have commendable contributions towards Government's agenda of financial Inclusion. NBFCs form an integral part of the Indian Financial System. They have been providing credit to retail customers in the underserved and unbanked areas. Their ability to innovate products in consonance to the needs of their clients is well established. They have played a key role in the development of important sectors like Road Transport and Infrastructure which are the life lines of our economy.

NBFCs have been supplementing the role of the organized banking sector by bridging the credit gaps, i.e., in meeting the increasing financial needs of the corporate sector, delivering credit to the unorganized sector and to small local borrowers. NBFCs have enjoyed a more flexible structure than banks in the organized sector. From time to time, the Central Government as well as Reserve Bank of India has been working towards regulation of these NBFCs. The Department of Non-Banking Supervision of RBI has been indulged in these activities of regulating as well as supervising the NBFCs. They are competitive and complimentary to banks and financial institutions .Many steps were taken in 1995-96 to reduce controls and remove operational constraints in the banking system. These include interest rate decontrol; liberalization and selective removal of Cash Reserve Ratio (CRR) stipulation, enhanced refinance facilities against government and other approved securities.

Keywords: Cash Reserved Ratio (CRR), Liberalization, Financial Inclusion, Financial Institutions.

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MERGES & ACQUISITIONS IN INDIA

[Paper Id – MGMT1002]

A Paper Presented by: ¹T.Sanjeev Kumar, ²G.Shaikshavali, ³K.Hareesh

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ABSTRACT

The purpose of this paper is to study the concept of merger and acquisition in detail by taking example of some companies like Free charge — Snap deal, AdiQuity (Mobile and Network) – Flipkart, mobile marketing startup Toro — Google. Both merger and acquisitions are used for the growth of businesses in the twenty first. Merger and Acquisition can allow enterprises to grow, shrink, change the nature of their business or improve their competitive position from a commercial and economic point of view, both types of transactions generally result in the consolidation of assets and liabilities under one entity, and the distinction between a "merger" and an "acquisition" is less clear.

In an unwilling acquisition the management of target company and oppose a move of being take over. When management of acquisition and target company mutually and willing agree for the takeover is called acquisition or friendly takeover recently Yahoo merger with Verizon, merger and acquisition are aimed to at improving productivity of a company and profits and other side the objective is also reduce the expenses of the firm this paper discussed bout a post-merger benefits by Free charge — Snap deal.

Keywords: Merger and acquisition, enterprise, management, business expansion, takeover, mutually, consolidation.

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**EVOLUTION OF PERFORMANCE APPRAISAL SYSTEM ON
EMPLOYEES MOTIVATION**
[Paper Id – MGMT1003]

A Paper Presented by: ¹T.Sanjeevkumar, ²G S Harish, ³T Harish Gowd

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ABSTRACT

Performance Appraisal has been considered as the most significant and indispensable tool for an organization, for the information it provides is highly useful in making decisions regarding various personnel aspects such as promotion and merit increases. Performance measures also link information gathering and decision making processes which provide a basis for judging the effectiveness of personnel sub-divisions such as recruiting, selection, training and compensation. In many organizations, reward decisions depend on subjective performance evaluations. However, evaluating an employee's performance is often difficult. In this paper, we develop a model in which the employee is uncertain about his own performance and about the manager's ability to assess him. The manager gives an employee a performance appraisal with a view of affecting the employee's self-perception, and the employee's perception of the manager's ability to assess performance. We examine how performance appraisals affect the employee's future performance. The predictions of our model are consistent with various empirical findings. These comprise (i) the observation that managers tend to give positive appraisals, (ii) the finding that on average positive appraisals motivate more than negative appraisals, and (iii) the observation that the effects of appraisals depend on the employee's perception of the manager's ability to assess performance accurately.

Keywords: Subjective Performance Appraisal, Credibility, Cheap Talk, Employee's Perception, Employee's Self –Perception.

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Date: 22nd October 2016

**ROLE OF FINANCIAL SYSTEM IN INDIAN ECONOMY
[Paper Id – MGMT1004]**

A Paper Presented by: ¹C.A.Mahesh, ² E.Gireesh, ³ A.Jithendra

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ABSTRACT

Finance holds the key to achieving long-term growth prospective for any country. As the economy grows and becomes more complex and market-oriented, the financial sector starts playing a crucial role in supporting growth by channeling domestic and foreign capital into productive investments. Increasing access to the financial system is also a main concern for making growth more balanced and sustainable, from both economic and social perspectives.

Financial system is one of the industries in an economy. It performs certain essential functions for the economy including maintenance of payment system, collection & allocation of the savings of society and creation of a variety of stores of wealth to suit the preferences of savers. It is a link between the saving & investments by providing the mechanism through which savings of savers are pooled and are put into the hands of those able & willing to invest by financial intermediaries. The role of financial system is thus, to promote savings and their channelization in the economy through financial assets that are more productive than the physical assets. Developing countries attach great importance to financial sector development and deepening in the pursuit of their poverty reduction goal. By mobilizing savings, facilitating payments and trade of goods and services, and promoting efficient allocation of resources, the financial sector is seen as playing a critical role in facilitating economic growth and, directly through broadening access to finance and indirectly through growth, contributing to poverty reduction

Keywords: Economic, poverty reduction, financial services, Financial Intermediaries, Financial Assets, Foreign Capital.

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Date: 22nd October 2016

**PAYMENTS BANKS IN INDIA: NEW LAND MARK IN BANKING
SECTOR**

[Paper Id – MGMT1005]

A Paper Presented by: ¹K.Lohit Kumar, ²D.Mahammad Rafi, ³J.Mahaboob Rabbani
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ABSTRACT

The term “Payment Banks” is new and seems to have been invented in Indian context. In September 2013, a “Committee on Comprehensive Financial Services for Small Businesses and Low Income Households”, headed by Nachiket MOR, was formed by the RBI. By January 2014, the Nachiket Mor committee submitted its final report and one of its recommendations was the formation of a new category of bank called payments banks.. The Main objectives of setting up of payments banks will be to further financial inclusion by providing (i) small savings accounts and (ii) payments/remittance services to migrant labor workforce, low income households, small businesses, other unorganized sector entities and other users.

These banks can accept a restricted deposit which is currently limited to 1 lakh per customer account. These banks cannot issue loans and credit cards. Both current account and savings accounts can be operated by such banks. Payments banks can issue services like ATM cards, debit cards online banking and mobile banking. Payments banks are expected to revolutionize financial services the way e-commerce has transformed the retail industry, through service and price differentiation, refreshing approach, choice to the customer, focus on volumes over margins, and more importantly, deconstruction of established paradigms.

Keywords: Payments Banks, Small Saving accounts, Payments/remittance, e-commerce, online and mobile Banking

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Date: 22nd October 2016

MICRO FINANCE IN INDIA

[Paper Id – MGMT1006]

A Paper Presented by: ¹R.Lavanya, ²C.Ashok , ³RS. Abdul Malik

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ABSTRACT

In a country like India where 70 percent of its population lives in rural area and 60 percent depend on agriculture (according to the World Bank reports), micro-finance can play a vital role in providing financial services to the poor and low income individuals. Microfinance is the form of a broad range of financial services such as deposits, loans, payment services, money transfers, insurance, savings, micro-credit etc. to the poor and low income individuals. The importance of micro-finance in the developing economies like India cannot be undermined, where a large size of population is living under poverty and large number of people does not have an access to formal banking facilities.

Microfinance is a form of financial services for entrepreneurs and small businesses lacking access to banking and related services. The two main mechanisms for the delivery of financial services to such clients are: (1) relationship-based banking for individual entrepreneurs and small businesses; and (2) group-based models, where several entrepreneurs come together to apply for loans and other services as a group. In some regions, for example Southern Africa, microfinance is used to describe the supply of financial services to low-income employees, which is closer to the retail finance model prevalent in mainstream banking. There are two broad approaches that characterize the microfinance sector in India is Self Help Groups (SHGs)-Bank linkage programme and Microfinance Institution (MFIs). In India microfinance is dominated by Self Help Groups (SHGs)-Bank linkage programme aimed at providing a cost effective mechanism for providing financial services to the unreached poor.

Keywords: SHG (Self Help Group), MFI (Microfinance Institution), World Bank, payment services, money transfer.

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Date: 22nd October 2016

FINANCIAL INCLUSION IN INDIA

[Paper Id – MGMT1007]

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ABSTRACT

Financial inclusion denotes delivery of financial services at an affordable cost to the vast sections of disadvantaged and low-income groups. Access to finance especially by the poor and vulnerable groups is prerequisite for poverty alleviation, employment, social upliftment and economic growth. Financial inclusion has become one of the most critical aspects in the context of inclusive growth and sustainable development in the developing countries like India. The Government of India and the RBI have been making concerted efforts to promote financial inclusion as one of the important national objectives. The government of India & RBI has come out with a major initiative towards ensuring the inclusive growth through financial inclusion so that the access of financial service will reach to the mass population.

The banking industry has shown tremendous growth in volume and complexity during the last few decades. Despite making significant improvements in all the areas relating to financial viability, profitability and competitiveness, there are concerns that banks have not been able to include vast segment of the population, especially the underprivileged sections of the society, into the fold of basic banking services. Internationally efforts are being made to study the causes of financial exclusion and designing strategies to ensure financial inclusion of the poor and disadvantaged. The reasons may vary from country to country and hence the strategy could also vary but all out efforts are being made as financial inclusion can truly lift the financial condition and standards of life of the poor and the disadvantaged.

Keywords: Poverty Alleviation, Social upliftment, Economic Growth, Financial Viability.

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**A COMPENDIUM ON SUSTAINABLE FUTURE OF AGED
POPULATION - TO OVERCOME VULNERABILITY
AND ATTAIN RESILIENCE IN INDIA**

[Paper Id – MGMT1008]

A Paper Presented by: ¹A. Vijaya Bhargavi, ²K. Shailaja Rao, ³J. Bindu Monika

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ABSTRACT

As more and more people in India enter the ‘senior citizen’ category, ugly cracks are beginning to appear in a social structure that claims to value the institution of family but reality expresses disdain for the bonds of blood. Neglecting of senior citizens – once revered and idolized in Indian society – is largely attributable to the changing social landscape in Asia’s third largest economy, currently home to over 100 million elderly people. “Indians have to work as long as possible in order to support themselves,” “Employer insurance and pension schemes are available only to as low as nine percent of rural males and 41.9 percent of urban males who are in the formal sector; among females, the figures are lower still.” Despite India’s rapid economic growth, the majority of older Indians remain poor. Less than 11 percent have a pension of any sort, and many continue to work in old age. Many elderly citizens confess staying with their abusive children more for emotional reasons. This paper depicts to throw some light on the resilience and vulnerability of aging population showcasing the sustainable future.

Keywords: Revered, Senior Citizens, Social Structure, Resilience, Vulnerability.

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**ADVANTAGES AND DISADVANTAGES OF TECHNOLOGIES:
PREVENTIONS TO SAVE CULTURE**

[Paper Id – MGMT1009]

A Paper Presented by: ¹Ch.Hymavathi, ²V. Baby Pravallika

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ABSTRACT

Technology today has made life easier and quicker but dangerous. Technology is all around us. Technology should add to lives, not detract from them. Everything we do is somehow connected with technology. Modern technology is machinery that makes life easier. How the new technology shapes our world our ancestors, who lived thousands of years ago, created the bridge that led to today's modern technology. Development of the new technology has a large impact on three major fields, and can be categorized as information technology, transportation and utilities. We should not let technology control us, but to be the master of it, and remember that technology can exist only under human control. For example, microwave ovens cook food easily without using stoves and making a big mess. Today modern technology also has created problems because they are dangerous. Although technology has advanced the access of information and communication, our society has grown more impersonal by communicating using technologies; therefore our culture is losing the ability to socialize face to face.

Technology has changed the way we connect to the world. Another large issue we face with the advances in technology is cyber-bullying. Our society has grown to be more comfortable with the technology rather than the people in front of them. The businessman who has wide business in the world can successfully run their business through internet. The modern technology also helps to spread the culture of one country around the world, which makes it a global village.

Keywords: Culture, Development, Technology, World.

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**ENHANCING SECURITY AND PRIVACY THROUGH
IDENTIFICATION-BASED BATCH VERIFICATION
SCHEME IN VEHICULAR AD HOC NETWORKS**

[Paper Id – ENGG1010]

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An identification-based Batch Verification Scheme in Vehicular ad hoc network (VANET) can outstandingly enhance the vehicles safety and effectiveness. The fundamental concept is to permit vehicles to send traffic message to roadside units (RSUs) or other distinctive vehicles. Vehicles need to be prohibited from a few assaults on their privacy and misuse of their non-public records. For this reason, the safety issues are vital for VANET. The identification based batch verification (IBV) scheme is a new approach to make VANET more comfortable and inexperienced for sensible use. The modern-day identity primarily based batch verification (IBV) schemes have some risk factor. Building an improved scheme may fulfill the security and isolation preferred with the aid of automobiles. The proposed IBV scheme affords the verifiable safety in the informal way. Similarly, the batch affirmation of the proposed scheme needs best powerful method for VANETs to accumulate confirmation, reliability and authority. However, the wide form of messages obtained with the useful resource of a roadside Unit (RSU) will become bulky. A scalability problem seem immediately, wherein the RSU face problem to consecutively confirm each acquired message within three hundred milliseconds length in keeping with the modern dedicated short range communications broadcast protocol. This new identity based batch verification scheme for transportation between motors and RSUs, in which an RSU can affirm ample received messages at the identical example such that the overall verification time may be properly reduced.

Keywords: Authenticity, Novel Batch Verification, privacy, Vehicular Ad hoc network (VANET)

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**ENHANCING NETWORK LIFE TIME OF A WIRELESS
SENSOR NETWORK USING MULTIPLE
SINK REPOSITIONING SCHEME**

[Paper Id – ENGG1011]

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ABSTRACT

In a wireless sensor network (WSN), sensor nodes have limited power. So the battery power of the sensor nodes should be conserved. It is going to increase the lifespan of the wireless sensor network. A sensor node detects an abnormal occasion and sends the information to sink node via multi hopping. Sensor nodes near the sink node will devour more battery energy than the others. Because of these reasons sensor nodes quickly drain out their battery power and reduce the lifespan of the sensor network. Sink repositioning is an effective approach for enhancing the lifetime of the wireless sensor network. Energy aware multiple sink repositioning (EAMSR) scheme is used right here. EAMSR method has important parts such as energy aware transmission range adjustment and multiple sinks repositioning. Transmission range adjustment mechanism enhances the life span of the sensor nodes and finally the sensor network. The sink repositioning method consists of two major parts. The first one is used to determine whether the sink node met the repositioning situation or not. The second one is used to decide the sink relocation direction. Sink repositioning happens when the residual battery energy of the nearby sensor node of the sink becomes small and the sink node moves to a new position which increases the WSN lifetime.

Keywords: Wireless Sensor Networks (WSN), Energy Aware, Multiple Sinks, Sink Repositioning, Battery Power.

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**PROJECT MANAGEMENT – LIVING WITH CHALLENGES:
A STUDY**

[Paper Id – MGMT1012]

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ABSTRACT

In today's fast changing corporate and industrial environment, projects are being used more frequently to plan and implement the changes needed by organizations. Project Management is the application of knowledge, skills, tools and techniques to project activities to meet project requirements. This paper emphasizes on one of the most vital management functionality project management and its importance in the contemporary world.

This paper demonstrates how project management takes the ultimate credit for the fruitful results of an organization to achieve the competitive advantage. This paper throws light on the role of Project management on different stages of business. This paper also illustrates the exigent nature of and need for effective project management by focusing on challenges that the project managers have to face. Certain measures are also offered to overcome these challenges with ease.

Keywords: Management - Primacy -Organizational challenges- Success measures.

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**EFFECT OF VARYING SIZE OF CORNER CHAMFER IN BOX
CULVERTS USING FINITE ELEMENT ANALYSIS**

[Paper Id – ENGG1013]

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ABSTRACT

Recent developments in computer technology have made it possible the use of Finite Element methods for 3D modeling and analysis of reinforced concrete structures. In the past study of box culverts, effect of haunch or chamfer has never considered in reduction of flexural stresses. In this study, finite element analysis of a Box Culvert is carried for different sizes of chamfer using ANSYS. A single barrel Box Culvert of clear inside dimensions 6m×6m and thickness of slabs and side walls as 0.5m has been used. Box culverts are modelled without reinforcement by assigning two basic properties viz. modulus of elasticity and poisons ratio. Modeling with these properties gives exact stresses, which are likely to develop under loading. First, a Box Culvert is modeled without providing haunch or chamfer and later it is analyzed by providing haunch of varying size viz. 0.5, 1.0, 1.5, 2.0 times thickness of wall. The same box culvert models have also analyzed in STAAD Pro. for the comparative study of bending moments. Based on the comparative study of these five cases, considerable reduction in maximum sagging and hogging bending moments is observed as chamfer size increases.