RESEARCH ARTICLE | JULY 14 2022

Categorizing and relating implementation challenges for realizing blockchain applications in government 🖫

Sunil Luthra ⁽¹⁾; Marijn Janssen ⁽¹⁾; Nripendra P. Rana ⁽²⁾; Gunjan Yadav ⁽³⁾; Yogesh K. Dwivedi ⁽³⁾

+ Author & Article Information

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Purpose

Blockchain technology (BCT) can be used for a wide variety of applications across domains and can bring many benefits. BCT-based applications can be beneficial for the government as well as businesses. Despite the many promises, BCT implementation lags behind. The purpose of this research is to identify a roadmap of critical implementation challenges that influence BCT implementation by governments.

Design/methodology/approach

The study develops an ISM-based model spread across seven levels to analyze the inter-relationship among the selected BCT challenges. The MICMAC analysis further helps in evaluating the variables based on their driving power and dependencies.

Findings

The findings show that all challenges have a strong impact on implementing BCT. The foundation for implementation BCT is to define standards and develop appropriate regulations. Next, the findings show the need for a shared infrastructure meeting the basic technical and societal requirements and developing viable business models to advance BCT implementation. Many challenges hinder the development of blockchain applications meeting the technical and ethical requirements.

Originality/value

Existing research has analyzed the relationship among challenges. To the best of the authors' knowledge this is the first paper to collate these implementation challenges and incorporate them to develop a hierarchical model using







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Abstract

Circular economy and circular supply chain management is demand for preserving natural resources for future generation globally. This circular supply chain and its management emphasizes on 9R framework, which initially propagated from 3R framework with clear vision toward environmental education and awareness, resource utilization, waste of one can be input to other vision. Further circular economy promotes due to technology revolution with IR4, advancement due to growing virtual world with ICT along with digitization needs to lend toward any one or all three pillars of





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LITERATURE REVIEW | APRIL 04 2023

Green Lean Six Sigma for sustainability improvement: a systematic review and future research agenda ≒

Vishwas Yadav; Mahender Singh Kaswan; Pardeep Gahlot ऑ; Raj Kumar Duhan; Jose Arturo Garza-Reyes; Rajeev Rathi; Rekha Chaudhary; Gunjan Yadav

+ Author & Article Information

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Purpose

The main purpose of this study is to explore different aspects of the Green Lean Six Sigma (GLSS) approach, application status and potential benefits from a comprehensive review of the literature and provide an avenue for future research work. This study also provides a conceptual framework for GLSS.

Design/methodology/approach

To do a systematic analysis of the literature, a systematic literature review methodology has been used in this research work. From the reputed databases, 140 articles were identified to explore hidden aspects of GLSS. Exploration of articles in different continents, year-wise, approach-wise and journal-wise was also done to find the execution status of GLSS.

Findings

This study depicts that GLSS implementation is increasing year by year, and it leads to considerable improvement in all dimensions of sustainability. Enablers, barriers, tools and potential benefits that foster the execution of GLSS in industrial organizations are also identified based on a systematic review of the literature.

Originality/value

The study's uniqueness lies in that, to the best of the authors' knowledge, this study is the first of its kind that depicts the execution status of GLSS, and its different facets, explores different available frameworks and provides avenues for







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Resources Policy

Volume 68, October 2020, 101776

Industry 4.0 and the circular economy: Resource melioration in logistics

Surajit Bag ^a ⊠ <mark>, Gunjan Yadav ^b ⊠</mark> , Lincoln C. Wood ^{c d} 🌣 ⊠ , Pavitra Dhamija ^e ⊠ , Sudhanshu Joshi ^f ⊠

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Highlights

- Study of Industry 4.0 enablers and business logistics sustainability.
- Partial least squares based structural equation modeling (PLS-SEM) and 150 survey responses.
- Industry 4.0 enablers have strong impact on intelligent logistics and dynamic remanufacturing.
- Pathways for investments in business sustainability and resource melioration in logistics.

Abstract

Mining and mineral resources help provide the requirements of everyday life by contributing to essential products and services. In the era of <u>fourth industrial revolution</u>, the trend in logistics is toward a smart <u>logistics system</u>. Therefore, it becomes essential to understand how <u>Industry</u> 4.0 resources influence smart logistics, i.e., instrumented logistics, interconnected logistics, and intelligent logistics. This study investigates how <u>Industry</u> 4.0 resources impact smart logistics and further influence dynamic remanufacturing and green manufacturing capability and, the final effect on business logistics <u>sustainability</u>. Survey data were collected from 150 respondents using an online survey of South African executives in firms operating mines, <u>quarries</u>, and processing plants.





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Journal of Cleaner Production

Volume 281, 25 January 2021, 125233

Key resources for industry 4.0 adoption and its effect on sustainable production and circular economy: An empirical study

Highlights

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- Develop a testable model using RBV theory as a theoretical lens.
- Industry 4.0 adoption has a positive relationship with sustainable production.
- Sustainable production can help to develop <u>circular economy</u> capabilities.
- Firms need to engage suppliers into various R&D programs to develop successful CE business models.

Abstract

Developing countries like <u>South Africa</u> is aiming to be a nation that has fully harnessed the potential of <u>Industry</u> 4.0 technological innovation to grow the economy and uplift people of the country. The country has motivated manufactures to focus on smart manufacturing considering the <u>sustainable development</u> aspects to develop <u>circular economy</u> capabilities. However, manufacturers are facing various resource related challenges, which has slowed down the progress of <u>Industry</u> 4.0 adoption. This study aspires to develop a theoretical model linking key resources for Industry 4.0 adoption that are essential to drive technological progress; and its effect on sustainable production and



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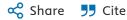
Journal of Cleaner Production

Volume 277, 20 December 2020, 124186

Exploring indicators of circular economy adoption framework through a hybrid decision support approach

Gunjan Yadav ^a ☒ , Sachin Kumar Mangla ^b Ҳ ☒ , Arijit Bhattacharya ^c ☒ , Sunil Luthra ^d ☒

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Highlights

- Provide 31 circular economy (CE) indicators.
- Propose a framework to improve CE adoption process.
- Explores a case analysis of an Indian manufacturing industry.
- Analyse the proposed framework through hybrid BWM-DEMATEL approach.
- Demonstrate intensity and inter-relationships among the CE indicators.

Abstract

<u>Circular economy</u> (CE) focuses on a circular approach to energy and material resources, which provides economic, environmental and <u>social benefits</u> for manufacturing organisations. CE adoption in emerging economies facilitates in substantial economic growth through appropriate utilisation of energy and material resources across <u>manufacturing industries</u>. This study identifies CE indicators in the context of an emerging economy. The study further develops a framework for the adoption of CE and tests it through a hybrid <u>Best Worst Method</u> and Decision-Making Trial and Evaluation Laboratory approach. The framework is validated through an Indian manufacturing case





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Repurposing production operations during COVID-19 pandemic by integrating Industry 4.0 and reconfigurable manufacturing practices: an emerging economy perspective

Rajesh Pansare¹ · Gunjan Yadav²

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Abstract

The Covid-19 pandemic has had a significant impact on manufacturing industries and supply chains. Manufacturing industries are struggling to repurpose their production activities and ramp up the supply chain to bridge the demand–supply gap. A framework that can cover Industry 4.0 technologies and reconfigurable manufacturing system (RMS) practices is desperately needed. The current study focuses primarily on the framework that could assist managers in decision-making and the stepwise adoption of RMS during repurposing. The extensive literature review was conducted to identify the prominent Industry 4.0 technologies and RMS practices. To compute the weights of selected practices, the novel Pythagorean fuzzy analytical hierarchy process (AHP) was used; while the Pythagorean fuzzy combined compromise solution (CoCoSo) method was used to prioritize the selected performance metrics. To test the robustness of the developed framework, a sensitivity analysis was carried out. According to the findings, smart factory adoption (SFA) practices were the most significant among the major criteria, followed by reconfiguration practices (RCP), soft computing practices (SCP), sustainable & circular economy practices (SCE), and quality practices (QPS). SFA's advanced technologies and SCP's computer algorithms certainly assist in the repurposing of production activities (RPO). The results of the sensitivity analysis demonstrated the robustness of the developed framework. The developed framework will be useful during RPO, and the identified practices can make a significant contribution. Advanced technologies and sustainable practices can help to improve the organization's work culture. Managers will be able to evaluate the organization's performance with the help of identified performance metrics. The work presented here may be the first attempt to develop a framework for RPO in a pandemic situation.

 $\textbf{Keywords} \ \ Reconfigurable \ manufacturing \ system \cdot Industry \ 4.0 \cdot Repurposing \ of \ production \ operations \cdot Pythagorean \ fuzzy \ AHP \cdot CoCoSo \ method$

1 Introduction

The pandemic caused by COVID 19 has had a negative impact on a variety of industries, including manufacturing, tourism, healthcare, and many others. The spending power of a large population has been significantly reduced as a result

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of the lockdown and quarantine period, which has resulted in a stagnant economy in the majority of regions (Shen et al. 2020). The coronavirus outbreak has also had a significant impact on several manufacturing industries in many countries, and some researchers have developed an accounting index to assess the impact of the virus (He et al. 2020). As a result, manufacturing industries are suffering from disrupted supply chains, a shortage of manpower due to the lockdown, a shortage of raw materials, highly dynamic market needs, disrupted transportation facilities, reduced customer purchasing power, etc. The global economy's growth rate is expected to fall up to -3% in 2020, potentially leading to a global recession. Furthermore, the manufacturing industries are expected to lose around 10.7% in 2020, while the service industries are expected to lose around 16% (Gu et al. 2020). As a result, there is a need to repurpose the manufacturing







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Article Navigation

OVERVIEW PAPER | MAY 31 2024

Comparison of different treatment methods which are used for phenol removal: A mini review 3

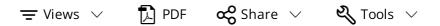
Mahesh Patel; Dharmendra Patel; Parwathi Pillai



Water Practice and Technology (2024) 19 (7): 2761-2773.

inexpensive adsorbents on commercial basis.

https://doi.org/10.2166/wpt.2024.143 Article history &





This article aims to provide a comprehensive overview of the various adsorption methods developed over time for phenol removal. Phenolic substances pose significant threats to aquatic ecosystems, wildlife, and human health. If not properly controlled and treated before discharge, industrial effluents contaminated with phenol can cause detrimental effects on surface and groundwater resources. In comparison with advanced treatments such as ozonation, UV therapy, and the Fenton process, which are associated with higher energy costs, conventional physicochemical treatment methods like adsorption, chemical treatment, membrane filtration, and distillation offer superior removal efficiencies. Pistachio nut shell ash, Moringa peregrina tree shell ash, agricultural fibres, red mud, low-cost clay, olive mill waste, natural zeolites, rubber seed coat, peat, fly ash, and bentonite are just a few examples of the adsorbents and adsorption processes that have been used in literature to remove phenol and its derivatives. For instance, biosorption has been shown to be a successful technique with room for further study in this area regarding regeneration and cost-effectiveness. As a result, numerous researchers in the field of phenolic **PDF** treatment have emphasized the effectiveness of physicochemical processes over time. Furthermore, additional investigation is required to determine the practical application of



- Phenolic substances are extremely harmful to aquatic environments, animals, and people.
- Comparison of physicochemical treatment methods, like adsorption, chemical and membrane

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Artificial Intelligence and Machine Learning for EDGE Computing

2022, Pages 305-314

Chapter 20 - A real-time performance monitoring model for processing of IoT and big data using machine learning

Eesha Mishra <mark>a, Santosh Kumar ^b </mark>
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□ Outline
https://doi.org/10.1016/B978-0-12-824054-0.00023-X 7 Get rights and content 7

Abstract

In this chapter, a real-time monitoring model that uses IoT-based sensors, big data handling, and hybrid model is proposed. In the current scenarios, an IoT-based sensor that gathers temperature, mugginess, accelerometer, and spinner information was created. The qualities of IoT-created sensor information from the assembling procedure are continuous, huge sums, and unstructured sort. The proposed huge information preparing stage uses Apache Kafka as a message line. Besides, for the proposed crossover forecast model, density-based spatial clustering of applications with noise (DBSCAN)-based exception location and random forest characterization were utilized to expel anomaly sensor information and give issue recognition during the assembling procedure, separately. The Proposed model is inspired by a model that was applied and tested at an automotive manufacturing assebly [21]. The outcomes demonstrated that IoT-based sensors and the proposed large information handling framework are adequately effective to screen the assembling procedure. The proposed framework is required to help the board by improving dynamics and help forestall unforeseen misfortunes brought about by flaws during the assembling procedure.

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Generalization of Vedic Mathematics Method for Nth Degree Polynomial Factorization: Using Sutras Paravartya Yojayet, Vilokanam and Ganita Samuccaya: Samuccaya Gunita

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Abstract: In this paper, we have presented a new approach to factorization of apolynomial, with the help of Vedic mathematics and modern mathematics concepts. This method is based on the Vedic mathematics sutras Vilokanam, Gunita Sumaccaya: Samuccaya Gunita, and Paravartya Yojayet given by Swami Bharti Krishna Maharaj. It is an easier and more useful method for studentsto easily factorize this type of polynomial with mental calculation.

Keywords: Modern Mathematics, Fundamental Theorem of Algebra, Vedic Mathematics, Vilokanam, Gunita Samuccaya: Samuccaya Gunita, Parayartya Yojayet, polynomial.

Introduction:

Vedic mathematics is an ancient Indian system of mathematical calculations or operation techniques that was developed in 1957. It consists of 16 sutras (formulae) and 13 sub-sutras (Sub Formulae) that can be utilized to solve problems in arithmetic, algebra, geometry, calculus, and conics. [1]. Various methods have been developed for the factorization of polynomials. In the Vedic method by Jagadguru Shankaracharya Shri Bharati Krishna Thirtha Swamiji, He introduced the method of factoring cubic polynomials [1]. In this study, we use the same concept for factorization of the nth type of polynomial equation with the help of modern mathematics.

The introduction of a method for factorizing nth-degree polynomials, which can be expressed as $x^n + a_1 x^{n-1} + a_2 x^{n-2} + \cdots + a_k$, (where x is variable of polynomial, n is degree of polynomial) and $a_1 a_2, ..., a_k$ are constant terms of polynomial)



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Engineering Applications of Artificial Intelligence

Volume 127, Part A, January 2024, 107132

An intelligent IoT intrusion detection system using HeInit-WGAN and SSO-BNMCNN based multivariate feature analysis

Jianbin Wu ^a 🖾 , Sami Ahmed Haider ^b 📯 🖾 , Heejung Yu ^c 📯 🖾 , Muhammad Irshad ^d 🖾 , Mukesh Soni ^e 🖾 , Mohit Kumar Bhadla ^f ⊠, Yousaf Bin Zikria ^g ⊠

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Highlights

- Highlights the necessity for cutting-edge intrusion detection systems by recognising the expanding attack surface, expanded communication infrastructure, and greater assault rates in IoT contexts.
- Analyse and comprehend the connections between data points in order to improve intrusion detection's precision and effectiveness.
- Demonstrated improved GAN methodology outperforms conventional ones, cutting down on false alarms and boosting the accuracy of intrusion detection.
- Apply methods like resilient scalar scaling based on maximum likelihood estimate and classification of missing data based on concordance connection coefficients.

Abstract

Devices connected to the <u>Internet of Things</u> (IoT) are growing in popularity across multiple industries. IoT links intelligent homes, buildings, businesses, and communities, and also links



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Review paper



Recent progress on gold nanoparticle biosensors monitored water quality: Insights on diversified contaminants and functionalization paradigms

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attributes

ABSTRACT

Over the past few years, water quality monitoring has swiftly emerged as a thrust area for most of the developing nations. Despite its renewable essence, incessant industrialization and urbanization have depleted the natural water resources, culminating in adverse impact on potable water quality. As a consequence, reliable technologies with utmost sensitivity and accurate predictions vis-à-vis authentic qualitative standards are urgently needed. Herein, interest in using gold nanoparticles (Au NPs) biosensors to gauge the qualitative profile of water resources has been quite significant. Major fascinations for Au NPs biosensing driven water quality monitoring are steadfast preparation methodologies, well-understood mechanisms for size-shape modulation and inert sensitivity manifested remarkable functionalization abilities. The size-shape modulated functionalization advances for Au NPs are the dynamic outcomes of their quantum effects, anchored via single or multidimensional quantum confinements (QCs). Morphologies as vibrant as rod, spherical, cylindrical, shells and combinatorial regime have been the backbone aspects of Au NPs based biosensors. With such insights, the present article focuses on last decade noted advances aimed at Au NPs biosensors assessed water quality. The studies discussed herewith were retrieved from Pubmed using the keywords, "Gold Nanoparticle Biosensors for Water Quality Monitoring". The knowledge shared herein could consolidate the fabrication of future Au nanomaterials based sensing technologies vis-à-vis functionalization mechanisms, cost considerations, precision aspects, integrated possibilities and long-term cautions.

1. Introduction

Deteriorating potable water quality has been an emerging global concern, manifested *via* unchecked human, industrial and agricultural exploitations. Pollutants from diversified sources (industrial and agricultural) contaminate the water bodies, rendering them unsafe for human consumption. Layman understanding of a contaminant *vis-à-vis* qualitative screening of any water resource implies any material prevailing at a more than optimum extent. Broadly, water contaminants can be chemical and biological, the former comprising insecticides, pesticides, aromatic compounds, heavy metals (HMs) *etc.*, the usual discards of industrial, agricultural and human activities. The mounting risk of all

these contaminants relates to their persisting tendency with a non-biodegradable essence. Notable of these entities in the biological domain include humans, animals and microbial (fungal, bacterial and algal) excreta [1–3]. Emerging concern for declining water quality is well-inferred from the World Health Organization (WHO) recognition of "Safely Managed Drinking Water Services" as a global aim. Statistics report staggering 76 million annual cases of waterborne illness from United States [4]. Similarly, in Bangladesh, one of every five food poisoning deaths attributes to poor water quality [5]. Thereby, accurate, precise and reproducible detection of pollutants is the major step towards reclaiming freshwater resources for minimizing environmental and health damage [6,7]. Declining water quality on the global front is

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Retracted: Analysis of Network Technologies and Cyber security Assessment for **Enhancing Machine Learning, Grid Computing and Cyber-Physical Connectivity Internetwork Effectiveness**



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071122 CHQ PAID-MICR CTS-MUJAYSHRIEN PABAN 0.0000000000000000000000000000000000	Statemen	t From: 01/11/2022 To: 30/11/2022					
07/11/22 CHQ PAID-MICR CTS-MU-GAUTAM PATEL 000000000002637 07/11/22 14,800.00 621,851.60 07/11/22 CHQ PAID-MICR CTS-MU-GHTAN SHIKLA 0000000000000669 07/11/22 27,940.00 593,911.60 07/11/22 CHQ PAID-MICR CTS-MU-ABHINAV UPADIIYAY 000000000000669 07/11/22 24,800.00 596,111.60 07/11/22 CHQ PAID-MICR CTS-MU-ABRINAV UPADIIYAY 000000000000671 07/11/22 24,550.00 536,641.69 07/11/22 CHQ PAID-MICR CTS-MU-ABRIBESH R GADHYI 000000000000673 07/11/22 39,500.00 497,141.69 07/11/22 CHQ PAID-MICR CTS-MU-RAUBESH R GADHYI 0000000000000671 07/11/22 11,800.00 497,141.69 07/11/22 CHQ PAID-MICR CTS-MU-RAUBESH VAGHELA 0000000000000000 07/11/22 11,800.00 30,000.00 535,541.69 07/11/22 CHQ PAID-MICR CTS-MU-RAUBESH VAGHELA 00000000000000 07/11/22 11,800.00 80,000.00 535,541.69 07/11/22 CHSHDANDEY-GAURAVPANDEY-GE@CKSH 0000023110487189 07/11/22 11,800.00 53,641.69 07/11/22 NEFT CR-UTIBO000130-FOJABHAI	07/11/22	CHQ PAID-MICR CTS-MU-JAYSHRIBEN PABANI	0000000000002639	07/11/22	9,850.00		648,451.69
07/11/22 CHQ PAID-MICR CTS-MU-CHETAN SHUKLA 000000000002634 07/11/22 22,940.00 593,911.69 07/11/22 CHQ PAID-MICR CTS-MU-ASHINAY UPADHYAY 000000000000664 07/11/22 24,800.00 569,111.69 07/11/22 CHQ PAID-MICR CTS-MU-DARTH GAJAR 000000000000645 07/11/22 7,920.00 356,191.69 07/11/22 CHQ PAID-MICR CTS-MU-PARTH GAJAR 000000000000645 07/11/22 24,550.00 33,661.69 07/11/22 CHQ PAID-MICR CTS-MU-PARTH GAJAR 000000000000063 07/11/22 14,800.00 492,341.69 07/11/22 CHQ PAID-MICR CTS-MU-BETUL PRAJAPATI 00000000000000 07/11/22 11,800.00 470,541.69 07/11/22 CASH DEP BHAVIN KALOL 00000000000000 07/11/22 80,000.00 550,541.69 07/11/22 CASH DEP BHAVIN KALOL 00000000000000 07/11/22 18,000.00 550,541.69 07/11/22 LUPI-GAURAV PANDEY-GAURAVPANDEYQRE@OKSHI 00000231104871891 07/11/22 10,000.00 563,541.69 07/11/22 LUPI-GAURAV PANDEY-GAURAVPANDEYQRE@OKSHI 00000231104871891 07/11/22 10,	07/11/22	CHQ PAID-MICR CTS-MU-JANKHANA BARIYA	0000000000002644	07/11/22	11,800.00		636,651.69
07/11/22 CHQ PAID-MICR CTS-MU-ABHINAV UPADHYAY 000000000002640 07/11/22 24,800.00 561,116.09 07/11/22 CHQ PAID-MICR CTS-MU-ASH RSING CHAVDA 000000000002645 07/11/22 24,550.00 336,641.69 07/11/22 CHQ PAID-MICR CTS-MU-RAJESH R GADHYI 000000000002645 07/11/22 39,500.00 497,141.69 07/11/22 CHQ PAID-MICR CTS-MU-RAJESH R GADHYI 000000000002637 07/11/22 39,500.00 497,141.69 07/11/22 CHQ PAID-MICR CTS-MU-RAJESH R GADHYI 0000000000002641 07/11/22 11,800.00 482,241.69 07/11/22 CASH DEP BHAVIN KALOL 0000000000000000000000000000000000	07/11/22	CHQ PAID-MICR CTS-MU-GAUTAM PATEL	0000000000002637	07/11/22	14,800.00		621,851.69
07/11/22 CHQ PAID-MICR CTS-MU-LASH RSING CHAVDA 00000000000000000000000000000000000	07/11/22	CHQ PAID-MICR CTS-MU-CHETAN SHUKLA	0000000000002634	07/11/22	27,940.00		593,911.69
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07/11/22 CHQ PAID-MICR CTS-MU-KETUL PRAJAPATI 000000000002641 07/11/22 11,800.00 470,541.69 07/11/22 CASH DEP BHAVIN KALOL 00000000000000 07/11/22 80,000.00 550,541.69 07/11/22 UPI-GAURAV PANDEY-GAURAVPANDEY-QRE@OKSBI 0000231104871891 07/11/22 3,000.00 553,541.69 SBIN0006942-231104871891-UPI 07/11/22 NEFT CR-UTIB0000130-FOJABHAI MEGHABHAI P AXSK223110016274 07/11/22 10,000.00 563,541.69 ARMAR-SWARANIM STARTUP AND INNOVATION UN AXSK223110016274 07/11/22 10,000.00 573,541.69 AJBHAI-SWARNIM STARTUP ND INNOVATION UN IBV-BARBV22311353234 07/11/22 10,000.00 574,241.69 10/11/22	07/11/22	CHQ PAID-MICR CTS-MU-RAJESH R GADHVI	0000000000002671	07/11/22	39,500.00		497,141.69
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		IR AD-N312222197526179					

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^{*}Closing balance includes funds earmarked for hold and uncleared funds



Groundwater for Sustainable Development

Volume 11, October 2020, 100429

Review article

Productivity enhancement of solar still with thermoelectric modules from groundwater to produce potable water: A review

Hitesh Panchal ^a, Kishor Kumar Sadasivuni ^b $\stackrel{ extstyle exts$ S. Shanmugan ^f, Naimish Pandya ^g, M. Suresh ^h, Mohammad Israr ⁱ, Swapnil Dharaskar ^j Abderrahmane Khechekhouche k

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Highlights

- Solar Desalination system with thermoelectric modules of various researchers work has been reviewed.
- Solar still with thermoelectric modules found best solution to supply potable water and electricity for remote location.
- Future work of solar still with thermoelectric modules has also included in present review.

Abstract:

Groundwater is recognized as a principal source of water for the drinking, irrigation and many other purposes. Researchers have also used groundwater in the solar distillation to convert it to drinkable water by use of solar energy. Even the researchers used thermoelectric modules with Solar operated devices like <u>flat plate collector</u>, <u>evacuated tubes collector</u>, compound parabolic concentrator etc. Hence, the main aim of the present review paper is to examine different researchers work on





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Cust ID : 142383561 Account No : 50200050958071 Imperia

A/C Open Date : 12/08/2020 Account Status : Regular

RTGS/NEFT IFSC: HDFC0000299 MICR: 380240009

Product Code: 1294 Branch Code : 299

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	APRASAD JAIN CHERITABLE TRUST					
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10/02/21	CHQ PAID-MICR CTS-MU-CHINTAN PRAJAPATI	0000000000000036	10/02/21	5,700.00		8,348.00
12/02/21	FT - DR - 50100373093408 - SHAH NAWAZ AS	00000000000000120	12/02/21	7,000.00		1,348.00
	HRAF					
12/02/21	IB FUNDS TRANSFER CR-50200048649139 -GY	IB12180133679819	12/02/21		50,000.00	51,348.00
	APRASAD JAIN CHERITABLE TRUST					
12/02/21	FT - DR - 50100344944753 - MONALI D JOSH	00000000000000207	12/02/21	6,800.00		44,548.00
	I					
16/02/21	IB FUNDS TRANSFER CR-50200048649139 -GY	IB16154600469227	16/02/21		150,000.00	194,548.00
	APRASAD JAIN CHERITABLE TRUST					
16/02/21	SALARY SWARANIM STATUP AND INNOVATION UN	00000000000000208	16/02/21	141,910.00		52,638.00
	DR - 02992990000043 - PALDI SALARY TRAN					
	SITORY A C					
18/02/21	IB FUNDS TRANSFER DR-50200048649139 -GY	IB18121351194577	18/02/21	15,000.00		37,638.00
	APRASAD JAIN CHERITABLE TRUST					
18/02/21	RTGS CR-KKBK0000958-AADISHWAR COLLEGE OF KK	KR52021021800863341	18/02/21		900,000.00	937,638.00
	TECHNOLOGY V-SWARNIM STARTUP AND INNOVA					
	TION UNI-KKBKR52021021800863341					
18/02/21	IB FUNDS TRANSFER DR-50200050973965 -SW	IB18135449672869	18/02/21	900,000.00		37,638.00
	ARRNIM INSTITUTE OF TECHNOLOGY					
20/02/21	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	000000000134853	22/02/21		37,500.00	75,138.00
	GANPAT BHAI KARSHANBHAI CHAUDHARY :STAT					
	E BANK OF INDIA					
22/02/21	CHQ PAID-MICR CTS-MU-P L THAKKAR AND SON	0000000000000123	22/02/21	35,000.00		40,138.00
22/02/21	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	0000000000000107	23/02/21		10,000.00	50,138.00
	BARADIYA SHIVJI MADEVA :BANK OF BARODA					
22/02/21	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	000000000100078	23/02/21		52,000.00	102,138.00
	JOSHPUR BODY REPAIRING :BANASKANTHA DIS					
	T CEN CO-OP BANK LTD					
23/02/21	IB FUNDS TRANSFER CR-50200048649139 -GY	IB23130739851371	23/02/21		300,000.00	402,138.00

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RESEARCH ARTICLE | APRIL 25 2023

Assessment of Sustainable Development Goals through Industry 4.0 and reconfigurable manufacturing system practices \

+ Author & Article Information

Journal of Manufacturing Technology Management (2023) 34 (3): 383-413.

https://doi.org/10.1108/JMTM-05-2022-0206 Article history 🕒

Purpose

The United Nation's Sustainable Development Goals (SDGs), introduced in 2015, connect several manufacturing strategies and promote sustainable practices in an organization. Manufacturing companies are struggling to meet changing market demands while also addressing social and biological issues. The current study aims to develop a framework that can assist practitioners and managers contribute to the attainment of the SDGs through the adoption of reconfigurable manufacturing system (RMS) practices and Industry 4.0 technologies.

Design/methodology/approach

An extensive literature review was carried out to identify RMS-Industry 4.0 practices and their interconnection, as well as their contribution to achieving the SDGs. The stepwise weight assessment ratio analysis (SWARA) method was then used to compute the weights of the selected RMS-Industry 4.0 practices, whereas the weighted aggregated sum product assessment (WASPAS) method was used to prioritize performance metrics. The developed framework's robustness was tested using a sensitivity analysis across five different organizations.

Findings

The findings show that advanced technologies practices have the most importance, followed by customization and rapid adjustment of capacity and functionality practices. The sensitivity analysis revealed the robustness of the developed framework as well as its adaptability among the chosen organizations.





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Cust ID : 142383561 : 50200050958071 Imperia

Account No A/C Open Date : 12/08/2020

Account Status : Regular RTGS/NEFT IFSC: HDFC0000299 MICR: 380240009

Branch Code Product Code: 1294 : 299

Statement of account To: 31/05/2023

110111 . 01	10.51/05/2025	Sta	tement o	or account		
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	- 59281108110811 - RAVI PRECAST					
19/05/23	CHQ PAID-MICR CTS-MU-NEERAJ	000000000003558	19/05/23	47,800.00		1,486,636.65
19/05/23	CHQ PAID-MICR CTS-MU-PINESH PATEL	0000000000003074	19/05/23	5,000.00		1,481,636.65
19/05/23	CHQ PAID-MICR CTS-MU-SARADAR M VAZARA	000000000003606	19/05/23	20,188.00		1,461,448.65
19/05/23	CHQ PAID-MICR CTS-MU-NILESH PATEL	000000000003549	19/05/23	325.00		1,461,123.65
19/05/23	CHQ PAID-MICR CTS-MU-KILLOL DESAI	0000000000003531	19/05/23	10,000.00		1,451,123.65
19/05/23	CHQ PAID-MICR CTS-MU-K S S LABOUR CONTRA	000000000003565	19/05/23	183,865.00		1,267,258.65
19/05/23	CHQ PAID-MICR CTS-MU-PREETI NAIR	000000000003535	19/05/23	10,000.00		1,257,258.65
19/05/23	CHQ PAID-MICR CTS-MU-ASIR DANIEL	0000000000003525	19/05/23	10,000.00		1,247,258.65
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19/05/23	CASH DEPOSIT BY - KHAT VIJAYBHAI - SANTR	0000000000000000	19/05/23		20,000.00	1,260,758.65
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	SHRA					
19/05/23	NEFT DR-IBKL01282KB-ARTH INDANE -PALDI,A	000000000003609	19/05/23	5,833.00		1,231,613.65
	HMEDA-N139232466184233					
19/05/23	FT - DR - 50100404581118 - AMITA PETERS	000000000003607	19/05/23	13,596.00		1,218,017.65
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20/05/23	CHQ PAID-MICR CTS-MU-GUNJAN YADAV	0000000000003608	20/05/23	2,500.00		1,219,017.65
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20/05/23	CHQ PAID-MICR CTS-MU-JYOTI LANDGE	0000000000003537	20/05/23	10,000.00		1,199,017.65
					l-	

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^{*}Closing balance includes funds earmarked for hold and uncleared funds



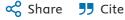
Computers in Industry

Volume 122, November 2020, 103280

A framework to achieve sustainability in manufacturing organisations of developing economies using industry 4.0 technologies' enablers

Gunjan Yadav ^a ☒ , Anil Kumar ^b ☒ , Sunil Luthra ^c ☒ , Jose Arturo Garza-Reyes ^d 옸 ☒ , Vikas Kumar ^e ☒ , Luciano Batista ^f

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Highlights

- Analysed Industry 4.0 technologies' enablers to achieve <u>sustainability</u> in developing economies.
- Developed a framework to achieve <u>sustainability</u> in manufacturing organisations.
- Conducted an empirical study across manufacturing organisations in India.
- · Applied Robust Best Worst Method to compute the intensity of enablers.
- Implemented developed framework in an automotive manufacturing organization.

Abstract





GARDEN ELLISBRIDGE AHMEDABAD 380006

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Product Code: 1294 Branch Code : 299

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07/11/20	FT - DR - 00481050179233 - JADEJA KISHOR	000000000000000021	07/11/20	50,000.00		21,580.00
	SINH JITUBHA					
09/11/20	GUNJAN YADAV - CHQ PAID - KALOL	0000000000000016	09/11/20	5,500.00		16,080.00
09/11/20	SANTOSH BARIYA - CHQ PAID - KALOL	00000000000000015	09/11/20	5,250.00		10,830.00
12/11/20	CHQ PAID-MICR CTS-MU-GUNJAN YADAV	0000000000000101	12/11/20	10,000.00		830.00
13/11/20	IB FUNDS TRANSFER CR-50200048649139 -GY	IB13162755869417	13/11/20		80,000.00	80,830.00
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13/11/20	NEFT DR-ICIC0000294-DAMJIBHAI KANJIBHAI	0000000000000105	13/11/20	20,000.00		60,830.00
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24/11/20	FT - DR - 50100373093408 - SHAH NAWAZ AS	0000000000000102	24/11/20	34,800.00		26,030.00
	HRAF					
30/12/20	IB FUNDS TRANSFER CR-50200048649139 -GY	IB30164305267397	30/12/20		300,000.00	326,030.00
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30/12/20	FT - DR - 50100271854421 - ARPIT KUMAR S	00000000000000024	30/12/20	9,905.00		316,125.00
	OLANKI					
30/12/20	NEFT DR-ICIC0000294-DAMJIBHAI KANJIBHAI	00000000000000022	30/12/20	20,000.00		296,125.00
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	IA PVT LTD-PALDI,AHMEDA-N365201355718990					
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	APRASAD JAIN CHERITABLE TRUST					
31/12/20	NEFT DR-VIJB0007326-GREEN GOLD GARDEN AN	00000000000000027	31/12/20	10,500.00		659,552.00
	D AGRO CONSULTANCY-PALDI,AHMEDA-N3662013					
	57077131					
31/12/20	RTGS DR-KKBK0000271-GIRNARSOFT EDUCATION	00000000000000028	31/12/20	550,000.00		109,552.00
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02/01/21	FT - DR - 50100340048542 - ABHISHEK SHRI	0000000000000108	02/01/21	3,400.00		106,152.00
	KRISHNABHAI CHOURASIYA					
02/01/21	FT - DR - 50100373093408 - SHAH NAWAZ AS	0000000000000109	02/01/21	5,833.00		100,319.00

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< Handbook of Smart Manufacturing (https://www.taylorfrancis.com/books/mono/10.1201/9781003333760/handbook-smart-manufacturing?refid=95a4f200-fde0-48da-84ec-c97f2cec79cf&context=ubx)

Chapter



Integration of Circular Supply Chain and Industry 4.0 to Enhance Smart Manufacturing Adoption

By Monika Vyas (/search?contributorName=Monika Vyas&contributorRole=author&redirectFromPDP=true&context=ubx), Gunjan Yadav (/search? contributorName=Gunjan Yadav&contributorRole=author&redirectFromPDP=true&context=ubx)

 $\underline{Handbook\ of\ Smart\ Manufacturing\ (https://www.taylorfrancis.com/books/mono/10.1201/9781003333760/handbook-smart-manufacturing?}$ refld=1f9aecc4-b7c1-4e02-815f-ee754932efd6&context=ubx)

Edition 1st Edition First Published 2023 CRC Press Imprint Pages 14

9781003333760 eBook ISBN



ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003333760-3/recent-advances-cybersecurity-smart-manufacturing-systems-industry-dinesh-kumar-atal-vishaltiwari-dharmender-kumar?context=ubx)

 $Next\ Chapter\ \succeq (chapters/edit/10.1201/9781003333760-5/artificial-intelligence-additive-manufacturing-devarajan-balaji-priyadharshini-arulmurugan-balaji-priyadharshini-arulm$ bhuvaneswari-rajkumar?context=ubx)

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&-francis-group/)	lang=en)	

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To: 31/08/2023

GARDEN ELLISBRIDGE AHMEDABAD 380006 GUJARAT INDIA

JOINT HOLDERS:

From: 01/08/2023

Nomination: Not Registered

Account Branch : PALDI

: SHAIVAL COMPLEX, Address

OPP CHANDANBALA TOWERS

PALDI

: AHMEDABAD 380 007 City

: GUJARAT : 18002026161 State Phone no. : 100,000.00 : INR OD Limit Currency

: ANJALPATEL48@GMAIL.COM Email

Cust ID : 142383561

Account No : 50200050958071

A/C Open Date : 12/08/2020 Account Status : Regular

RTGS/NEFT IFSC: HDFC0000299 MICR: 380240009

Branch Code : 299 Product Code: 1294

Statement of account

11/08/23	NEFT CR-ICIC0SF0002-DEEP SOLANKI-SWARNIM	HS92322312646501	11/08/23		70,000.00	960,784.77
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	@OKSBI-SBIN0060434-322484787755-UPI					
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12/08/23	NEFT CR-ICIC0SF0002-PANDEY KSHIPRA-SWARR	HS92322412717774	12/08/23		35,000.00	1,031,384.77
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14/08/23	CHQ PAID-MICR CTS-MU-B SOLAR CONSULTANT	0000000000004306	14/08/23	72,767.00		942,817.77
14/08/23	UPI-DARSHAN BHOGILAL SUT-SUTHARDARSHAN02	0000322683626598	14/08/23		35,000.00	977,817.77
	8@YBL-SBIN0013414-322683626598-DISHA MIS					
	TRY PHD					
14/08/23	SURESH - CHQ PAID - CHANDLODIYA	0000000000004322	14/08/23	1,424.00		976,393.77
14/08/23	NEFT DR-UTIB0000338-GUNJAN YADAV-	0000000000004344	14/08/23	2,500.00		973,893.77
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	AKASH RAI :INDUSIND BANK LTD					

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- Development of a structural framework to

International Journal of Computer Integrated Manufacturing >

Volume 36, 2023 - Issue 3

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Research Article

Development of a structural framework to improve reconfigurable manufacturing system adoption in the manufacturing industry

Rajesh Pansare, Gunjan Yadav 🛂 & Madhukar R Nagare

Pages 349-380 | Received 01 May 2021, Accepted 13 Jun 2022, Published online: 30 Jul 2022



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ABSTRACT

The Reconfigurable Manufacturing System (RMS) has drawn the interest of researchers and practitioners due to its ability to meet dynamic customer needs while also providing flexibility and productivity in manufacturing. To increase RMS adoption, it is necessary to identify Reconfigurable-Manufacturing-System-Enablers (RMSEs) and develop a structural framework to guide practitioners to focus at different stages of implementation. To identify RMSEs, an extensive literature review is conducted, and the structural framework is developed using hybrid Robust-Best-Worst-Method (RBWM)-Interpretive Structural Modelling-(ISM) method with the

Page No .: 16 Statement of account



M/S. SWARANIM STARTUP AND INNOVATION UNI C/O SWARANIM STARTUP AND INNOVATION 35 WORLD BUSINESS HOUSE OPP PARIMAL GARDEN ELLISBRIDGE

AHMEDABAD 380006

GUJARAT

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Statement From: 01/04/2022 To: 30/04/2022 Account Branch : PALDI

: SHAIVAL COMPLEX, Address

OPP CHANDANBALA TOWERS

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: AHMEDABAD City : GUJARAT : 18002026161 State Phone no.

: 100000 Currency: INR OD Limit : ANJALPATEL48@GMAIL.COM Email

Cust ID : 142383561 Account No : 50200050958071 Imperia

A/C Open Date : 12/08/2020 Account Status : Regular

RTGS/NEFT IFSC: HDFC0000299 MICR: 380240009

Product Code: 1294 Branch Code : 299

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21/04/22	NEFT DR-IDIB000R122-ZED MEN MANAGEMENT-P	0000000000001462	21/04/22	50,000.00		454,355.53
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	IBHAI-SWARNIM STARTUP AND INNOVATION UNI					
	V-IDIBH22111223555					
21/04/22	NEFT CR-BKID0000200-ANJALI SANDIPKUMAR C	BKIDN22111295391	21/04/22		25,000.00	509,355.53
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	GHABHAI NAKUM					
21/04/22	UPI-RABARI NARENDRABHAI -NARENDRADESAI63	0000211115041529	21/04/22		15,000.00	609,355.53
	548246@OKSBI-BARB0BGGBXX-211115041529-UP					
21/04/22	I CHO DA ID TO ANGEED DU GUDHANIA DA V	00000000000146	21/04/22	2.500.00		(0) 055 52
21/04/22	CHQ PAID-TRANSFER IN-GUNJAN YADAV	000000000001465		2,500.00		606,855.53
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21/04/22	AN	0000000000001001	21/04/22	27,865.00		575,990.53
21/04/22	IMPS-211117877755-SANJAYBHAI S KACHHAD-I	0000211117877755	21/04/22		5,000.00	580,990.53
21/04/22	CIC-XXXXXXX7106-SNEHA FEES	0000211117877733	21/04/22		3,000.00	380,990.33
21/04/22	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	00000000000000013	22/04/22		40,000.00	620,990.53
21/07/22	CHINTANKUMAR KIREETBHAI PATEL :BANK OF	000000000000000000000000000000000000000	<i>LL</i> I		40,000.00	020,770.33
	BARODA					
21/04/22	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	000000000580975	22/04/22		25,000.00	645,990.53
						0.2,7,000

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Article

An agile new product development-based sustainable supply chain framework to improve environmental quality performance: emerging economies perspective

March 2023 · Management of Environmental Quality An International Journal 34(02)

DOI: 10.1108/MEQ-04-2022-0119

Authors:





Gunjan Yadav
Prashanti Institute of Technology & Science



Madhukar Raosaheb Nagare Veermata Jijabai Technological Institute

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Citations (10) References (48)

Abstract

Purpose Sustainable supply chain management (SSCM) is a new subfield of supply chain management. The purpose of this research is to develop a framework for assessing the impact of agile new product development (ANPD) practices on the environmental SSCM performance. Design/methodology/approach The ANPD practices and SSCM environmental performance metrics (SEPMs) are identified through the literature review. The shortlisted ANPD practices are categorized into five major criteria each with an own set of sub-criteria. A four-level conceptual framework is developed. The weights of these ANPD practices are computed using the Pythagorean fuzzy Analytical Hierarchy Process (PFAHP), and the SEPMs are ranked using the Pythagorean fuzzy Combined Compromise Solution (PFCoCoSo). Findings The results show that the major criterion "Innovation Aspects" is the most important with a weightage of 0.2368, followed by "Policy Aspects" having 0.2228, "Technology Aspects" with 0.1959, "Organisation Aspects" having 0.1786 and "Executive Aspects" with 0.1658 weightage. The SEPMs "Frequency of NPD" is ranked first with an assessment value (Ki) of 2.5569, followed by "Lead time reduction" and "Number of design iterations" with Ki of 2.4482 and 2.3897, respectively. The research findings show that the ANPD practices like customer need assessment, availability of multidisciplinary team and Industry 4.0 technology usage contribute more to achieving environmental SSCM. Practical implications Managers can enhance environmental SSCM performance by adopting the ANPD practices and prioritizing SEPMs. Corporate effectiveness will be increased by the practices that promote SSCM and the use of technological innovations. Originality/value This study identified a unique set of 22 performance metrics that quantitatively measure NPD performance as well as environmental SSCM performance by adopting the 31 ANPD practices that were shortlisted. The proposed framework is a novel synthesis of literature from various disciplines such as new product development (NPD), environmental management, SSCM and performance evaluation.

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Account No : 50200050958071 Imperia

A/C Open Date : 12/08/2020 Account Status : Regular

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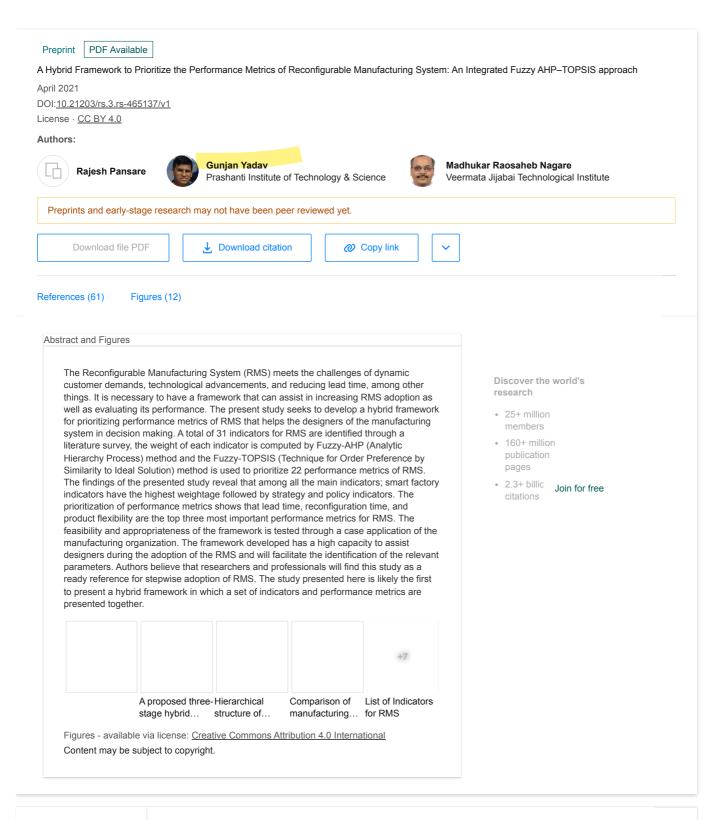
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	0223180626					
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	- 50100358542989 - LALITBHAI					
07/02/23	NEFT - SCBL0036032 - C72840070223211335	N038232322392456	07/02/23	50,222.00		565,312.65
	52810207946 - PARAMJEET SINGH					
08/02/23	IMPS-303927035061-APIBANKING-RATN-XXXXXX	0000303927035061	08/02/23		1.00	565,313.65
	XXXXXX0168-ACCOUNTVALIDATION					
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08/02/23	CHQ DEP RET CHGS 060123-MIR2303725863665	000000000392005	08/02/23	118.00		565,077.65
09/02/23	UPI-MANAVIBEN KALPESHKUM-PATELMANAVI1005	0000304029863139	09/02/23		300.00	565,377.65
	@OKHDFCBANK-HDFC0003948-304029863139-UPI					
09/02/23	UPI-MOINUDDIN IBRAHIM SU-8849937843@PAYT	0000304027523913	09/02/23		500.00	565,877.65
	M-UBIN0531049-304027523913-NA					
09/02/23	FT - HDFC000000X - C74926090223133724 -	0000000321485791	09/02/23	42,387.00		523,490.65
	- 50100156655831 - KULDEEP SINGH					
09/02/23	NEFT DR-IDIB000G047-BHAVIKA HIRENKUMAR P	0000000000003138	09/02/23	21,518.00		501,972.65
	ATEL-PALDI,AHMEDA-N040232325443423					
09/02/23	NEFT DR-SBIN0018625-MONIKA PATEL-PALDI,A	0000000000003141	09/02/23	16,000.00		485,972.65
	HMEDA-N040232325440654					
09/02/23	NEFT DR-KKBK0000810-RAJESHKUMAR RATANBHA	0000000000003140	09/02/23	39,500.00		446,472.65
	I GADHVI-PALDI,AHMEDA-N040232325440322					
09/02/23	NEFT DR-UBIN0920606-SHAILESHKUMAR B. SOL	0000000000003131	09/02/23	1,950.00		444,522.65
	ANKI-PALDI,AHMEDA-N040232325448994					
09/02/23	NEFT DR-UTIB0000728-NILESH SATHVARA-PALD	0000000000003132	09/02/23	1,800.00		442,722.65
	I,AHMEDA-N040232325461418					
09/02/23	NEFT DR-BKID0002002-HEMANTKUMAR SHAH-PAL	0000000000003133	09/02/23	1,860.00		440,862.65
	DI,AHMEDA-N040232325476590					
09/02/23	NEFT DR-BKID0004809-SANDEEP KUMAR-PALDI,	0000000000003135	09/02/23	12,000.00		428,862.65
	AHMEDA-N040232325469947					
09/02/23	NEFT DR-ICIC0000104-GUNJAN YADAV-PALDI,	000000000003136	09/02/23	5,000.00		423,862.65
	AHMEDA-N040232325483136					
09/02/23	NEFT DR-IBKL0000082-OM PAPERS-PALDI,AHME	0000000000003127	09/02/23	7,522.00		416,340.65

HDFC BANK LIMITED

^{*}Closing balance includes funds earmarked for hold and uncleared funds

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GARDEN ELLISBRIDGE AHMEDABAD 380006

GUJARAT

JOINT HOLDERS:

Nomination: Not Registered

Account Branch : PALDI

: SHAIVAL COMPLEX,

OPP CHANDANBALA TOWERS

PALDI

City : AHMEDABAD State : GUJARAT Phone no. : 18002026161

Currency: INR OD Limit : 100000 : ANJALPATEL48@GMAIL.COM Email

Cust ID : 142383561

Account No : 50200050958071 Imperia

A/C Open Date : 12/08/2020 Account Status : Regular

RTGS/NEFT IFSC: HDFC0000299 MICR: 380240009

Product Code: 1294 Branch Code : 299

ICLBARBOCHANOD-12650563779-UPI 220921 CRQ PAID-TRANSFER IN-JINDAL SURENDRA KUM 0000000000000566 220921 5,310.00 274,681.40 2279,991.40 10.000000000000000000000000000000000	Statement	From: 01/04/2021 To: 31/03/2022			_		
22/09/21 UN CHQ RET-AMOUNTS IN WORDS AND FIGURES 0000000000000056 22/09/21 5,310.00 279/991.40		ICI-BARB0CHANOD-126505663779-UPI					
22:09:21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 00000000000000000000000000000000000	22/09/21	CHQ PAID-TRANSFER IN-JINDAL SURENDRA KUM	0000000000000566	22/09/21	5,310.00		274,681.40
SANKETKUMAR H PATEL :BANK OF BARODA 22:09:21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: RAMESHKUMAR RAMJIBHAI DESAI :STATE BANK OF INDIA 23:09:21 50:2000:509:58071:2001:001:569 0000109237940440 23:09:21 9,990.00 324,981.40 23:09:21 NEFT CR-INDB0000006-JAI MATAJI ROADLINES INDBN23092139788 23:09:21 150,000.00 474,981.40 SWARANIM STARTUP AND INNOVATIO-INDBN230 92:139788 23:09:21 IMPS-12661854734-PRAKASHKUMAR BALARAM-H 0000126618544734 23:09:21 10,000.00 484,981.40 DFC-XXXXXXX2390-MOBLT2309180848326 23:09:21 UPI-CHAUHAN HITESHKUMAR -7359627280220@P 0000126645950750 23:09:21 6,000.00 490,981.40 AYTM-BKID0002305-126645950750-NA 23:09:21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 00000000000052 24:09:21 10,000.00 500,981.40 CHINTANKUMAR KIREETBHAI PATEL :BANK OF BAROD A CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000051 24:09:21 5,000.00 525,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000052 24:09:21 5,000.00 525,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000051 24:09:21 5,000.00 525,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000051 24:09:21 5,000.00 515,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000057 24:09:21 7,500.00 515,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000057 24:09:21 1,000.00 515,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000057 24:09:21 1,000.00 515,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000057 24:09:21 1,000.00 515,981.40 24:09:21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000057 24:09:21 1,000.00 515,981.40	22/09/21	I/W CHQ RET-AMOUNTS IN WORDS AND FIGURES	0000000000000566	22/09/21		5,310.00	279,991.40
22/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: RAMESHKUMAR RAMJIBHAI DESAI :STATE BANK OF INDIA 23/09/21 20/000.00 314,991.40 23/09/21 29/09/00 324,981.40 23/09/21 29/09/00 324,981.40 23/09/21 29/09/00 324,981.40 23/09/21 29/09/00 324,981.40 23/09/21 29/09/00 324,981.40 23/09/21 29/09/00 324,981.40 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/00 23/09/21 29/09/21 2	22/09/21	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	0000000000000000	23/09/21		15,000.00	294,991.40
RAMESHKUMAR RAMJIBHAI DESAI :STATE BANK OF INDIA 23/09/21 502000509580712001001569 0000109237940440 23/09/21 9,990.00 324,981.40 23/09/21 NEFT CR-INDB000006-JAI MATAJI ROADLINES INDBN23092139788 23/09/21 150,000.00 474,981.40 -SWARANIM STARTUP AND INNOVATIO-INDBN230 92139788 23/09/21 IMPS-126618544734-PRAKASHKUMAR BALARAM-H 0000126618544734 23/09/21 10,000.00 484,981.40 DFC-XXXXXXX2390-MOBLT2309180848326 23/09/21 UPI-CHAUHAN HITESHKUMAR -7359627280220@P 0000126645950750 23/09/21 6,000.00 490,981.40 AYTM-BKID0002305-126645950750-NA 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 000000000000052 24/09/21 10,000.00 500,981.40 KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 00000000000000010 24/09/21 30,000.00 530,981.40 CHINTANKUMAR KIREETBHAI PATEL :BANK OF BAROD A 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000012 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000000000000000000000000000		SANKETKUMAR H PATEL :BANK OF BARODA					
OF INDIA 23/09/21	22/09/21	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	000000000753335	23/09/21		20,000.00	314,991.40
23/09/21 02000509580712001001569 0000109237940440 23/09/21 9,990.00 324,981,40		RAMESHKUMAR RAMJIBHAI DESAI :STATE BANK					
23/09/21 NEFT CR-INDB0000006-JAI MATAJI ROADLINES INDBN23092139788 23/09/21 150,000.00 474,981.40		OF INDIA					
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92139788 23/09/21 IMPS-126618544734-PRAKASHKUMAR BALARAM-H DFC-XXXXXXX2390-MOBLT2309180848326 23/09/21 UPI-CHAUHAN HITESHKUMAR -7359627280220@P AYTM-BKID0002305-126645950750-NA 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000512 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 0000000000000071 24/09/21 7,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 00000000000000771 24/09/21 2,500.00 515,981.40 515,981.40 515,981.40	23/09/21	NEFT CR-INDB0000006-JAI MATAJI ROADLINES	INDBN23092139788	23/09/21		150,000.00	474,981.40
23/09/21 IMPS-126618544734-PRAKASHKUMAR BALARAM-H D000126618544734 23/09/21 DFC-XXXXXXX2390-MOBLT2309180848326 DFC-XXXXXXX2390-MOBLT2309180848326 DFC-XXXXXXX2390-MOBLT2309180848326 D000126645950750 23/09/21 6,000.00 490,981.40 AYTM-BKID0002305-126645950750-NA CHQ DEP MICR CLG - NAVRANGPURA EXTN: D000000000000052 24/09/21 D1,000.00 500,981.40 AX CHQ DEP MICR CLG - NAVRANGPURA EXTN: D00000000000000000000000000000000000		-SWARANIM STARTUP AND INNOVATIO-INDBN230					
DFC-XXXXXXX2390-MOBLT2309180848326 23/09/21 UPI-CHAUHAN HITESHKUMAR -7359627280220@P 0000126645950750 23/09/21 6,000.00 490,981.40 AYTM-BKID0002305-126645950750-NA 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 000000000000052 24/09/21 10,000.00 500,981.40 KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 000000000000010 24/09/21 30,000.00 530,981.40 CHINTANKUMAR KIREETBHAI PATEL :BANK OF BAROD BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000512 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 0000000000000064 24/09/21 7,500.00 518,481.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 000000000000570 24/09/21 1,900.00 514,081.40		92139788					
23/09/21 UPI-CHAUHAN HITESHKUMAR -7359627280220@P AYTM-BKID0002305-126645950750-NA 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 000000000000000570 24/09/21 1,900.00 514,081.40 24/09/21 1,900.00 514,081.40 514,081.40	23/09/21	IMPS-126618544734-PRAKASHKUMAR BALARAM-H	0000126618544734	23/09/21		10,000.00	484,981.40
AYTM-BKID0002305-126645950750-NA 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL CHQ PAID-MICR CTS-MU-GUNJAN YADAV 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 00000000000000570 24/09/21 2,500.00 514,081.40 514,081.40		DFC-XXXXXX2390-MOBLT2309180848326					
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KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 000000000000010 24/09/21 30,000.00 530,981.40 CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 000000000000512 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 000000000000946 24/09/21 7,500.00 518,481.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 000000000000570 24/09/21 2,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-OM PAPIRS 000000000000570 24/09/21 1,900.00 514,081.40		AYTM-BKID0002305-126645950750-NA					
A 23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 00000000000000512 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 00000000000000946 24/09/21 7,500.00 518,481.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 00000000000000571 24/09/21 2,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 00000000000000570 24/09/21 1,900.00 514,081.40	23/09/21	CHQ DEP MICR CLG - NAVRANGPURA EXTN:	0000000000000052	24/09/21		10,000.00	500,981.40
23/09/21 CHQ DEP MICR CLG - NAVRANGPURA EXTN: 000000000000010 24/09/21 30,000.00 530,981.40 CHINTANKUMAR KIREETBHAI PATEL :BANK OF BARODA 24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000512 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 0000000000000046 24/09/21 7,500.00 518,481.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 000000000000571 24/09/21 2,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-OM PAPIRS 000000000000570 24/09/21 1,900.00 514,081.40		KANTIBHAI MOTIBHAI DAMOR :BANK OF BAROD					
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24/09/21 CHQ PAID-MICR CTS-MU-NAY A PATEL 0000000000000512 24/09/21 5,000.00 525,981.40 24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 000000000000000046 24/09/21 7,500.00 518,481.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 0000000000000571 24/09/21 2,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-OM PAPIRS 0000000000000570 24/09/21 1,900.00 514,081.40		CHINTANKUMAR KIREETBHAI PATEL :BANK OF					
24/09/21 CHQ PAID-MICR CTS-MU-GUNJAN YADAV 0000000000000946 24/09/21 7,500.00 518,481.40 24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 0000000000000571 24/09/21 2,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-OM PAPIRS 000000000000570 24/09/21 1,900.00 514,081.40		BARODA					
24/09/21 CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE 0000000000000571 24/09/21 2,500.00 515,981.40 24/09/21 CHQ PAID-MICR CTS-MU-OM PAPIRS 0000000000000570 24/09/21 1,900.00 514,081.40	24/09/21	CHQ PAID-MICR CTS-MU-NAY A PATEL	0000000000000512	24/09/21	5,000.00		525,981.40
24/09/21 CHQ PAID-MICR CTS-MU-OM PAPIRS 000000000000570 24/09/21 1,900.00 514,081.40	24/09/21	CHQ PAID-MICR CTS-MU-GUNJAN YADAV	0000000000000946	24/09/21	7,500.00		518,481.40
	24/09/21	CHQ PAID-MICR CTS-MU-MEGHA ENTERPRISE	0000000000000571	24/09/21	2,500.00		515,981.40
24/09/21 CHQ PAID-MICR CTS-MU-VIMAL JEWELL COS 0000000000000568 24/09/21 4,450.00 509,631.40	24/09/21	CHQ PAID-MICR CTS-MU-OM PAPIRS	0000000000000570	24/09/21	1,900.00		514,081.40
	24/09/21	CHQ PAID-MICR CTS-MU-VIMAL JEWELL COS	0000000000000568	24/09/21	4,450.00		509,631.40
24/09/21 CHQ PAID PARTH THAKKAR - CHQ PAID - SHAH 000000000000572 24/09/21 20,295.00 489,336.40	24/09/21	CHQ PAID PARTH THAKKAR - CHQ PAID - SHAH	0000000000000572	24/09/21	20,295.00		489,336.40
IBAUG, A		IBAUG, A					
24/09/21 UPI-PRAVINCHANDRA VIRABH-9978592775@YBL- 0000126750593365 24/09/21 10,000.00 499,336.40	24/09/21	UPI-PRAVINCHANDRA VIRABH-9978592775@YBL-	0000126750593365	24/09/21		10,000.00	499,336.40
SBIN0002637-126750593365-PAYMENT FROM PH		SBIN0002637-126750593365-PAYMENT FROM PH					

HDFC BANK LIMITED

^{*}Closing balance includes funds earmarked for hold and uncleared funds