



**Sandip Institute of Technology & Research Centre, Nashik
Innovation and Entrepreneurship Development Cell**

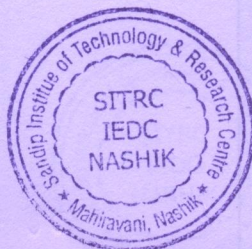
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Department of Science and Technology
Ministry of Science of Technology
Government of India

**Title of the project: Journal Paper Vending Machine (JPVM) **
(F. No. 11/10/2015-NEB (G)/02 dated 13/05/2016)

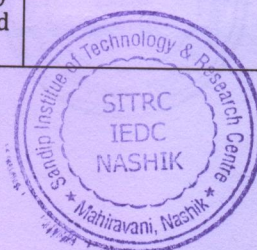
Technical Outcome year wise			
Title of the project	Outcome in terms of product/process development	Current Status Patent filled (if not filed, then authorized reason)	Socially and Economically Relevance
Journal Paper Vending Machine (JPVM)	<ul style="list-style-type: none">System is designed to solve the daily issue of resident as well as non-resident students to dispense journal paper on acceptance of a standard coin.	As per Patentability Search by our IPR Team and Legal Advisor (IPR), Innovation is not patentable under obviousness criteria	<ul style="list-style-type: none">Easy Access to Journal Papers.Journal Papers available 24x7.Time spent to avail Journal Papers reduced.Student satisfaction.Inspiration for other students to find solution to day-to-day problems on their own.More such machines to come up in future, reducing human dependency.Embedment of billing systems in such machines will promote cash-less transactions.



Title of the project: Emergency detection, flash alarm and information System for smart city
(F. No. 11/10/2015-NEB (G)/01 dated 13/05/2016)

Technical Outcome year wise

Title of the project	Outcome in terms of product/process development	Current Status Patent filled (if not filed, then authorized reason),	Socially and Economically Relevance
Emergency detection, flash alarm and information System for smart city	<ul style="list-style-type: none"> With the growing number of crimes every day, safety has become a major issue for each and every human being. When in an emergency situation, if help is not provided at the right time, unwanted consequences can occur. Considering this, we are developing a strong Android Application which is also powered by a Bluetooth wristband. When the Emergency widget of this App, or the wristband's button is pressed, every user of this App in the range of 1 kilometer around the victim is made aware about the victims situation through a DISTRESS FLASH - ALARM. <ul style="list-style-type: none"> After flash alarming the phones of every user in the range of 1 km radius around the victim, an Emergency call will be made to the nearest police station and 15 registered emergency contacts will be sent a help me please text me message. Because of this, the victim may get help from the nearby people first. Our information system focuses on the following points: Many a times it happens that the people in the city are not aware about the situations happening in the city. Example - Roadblock, flood affected areas, political instabilities etc. Because of this, a lot of time and money could be wasted. <ul style="list-style-type: none"> For this reason our information system will continuously send updates through pop-ups to every App user in the registered city. 	<p>As per New Revised CRI guidelines July 2017 Innovation is not patentable.</p> <p>Whereas Copyright has been successfully filed</p> <p>Diary No.: 9469/2017-CO/L</p>	<ul style="list-style-type: none"> Nowadays the Crime ratio is increasing in the Society. To aware around the people of victim and get immediate help from them can done by using this app. With help of Low battery notification the registered number can get last location of user. So can aware about user location. The information system will aware about the natural disaster like earthquake, landslides and others. Local residential people can aware about the situation and handle with proper disaster management system. Time and human efforts are saved which is one of the main aim while Saving lives of human beings.





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Title of the project: Web Based IEEE Paper Formatting Tool
(F. No. 11/10/2015-NEB (G)/03 dated 13/05/2016)

Technical Outcome year wise			
Title of the project	Outcome in terms of product/process development	Current Status Patent filled (if not filed, then authorized reason),	Socially and Economically Relevance
Web Based IEEE Paper Formatting Tool	<ul style="list-style-type: none">• User level bugs that mostly generated during formatting are completely avoided.• No need of additional software such as citation manager, Math editor etc.• User friendly interface. A novice user also can use easily.• Subordinate or additional software or tools are not needed. It is completely independent.• Templates for most of IEEE conferences and journals are included in template library. So, author need not to separately download it.• Reduced paper formatting time.• Images, graph and charts can be easily formatted as per the specifications of IEEE.	<p>It's pure software module. As per CRI 2016 guidelines, mere software can't be patented. So, Patent is not filed.</p> <p>Whereas Copyright has been successfully filed Diary No.: 6462/2017-CO/L</p>	<ul style="list-style-type: none">• This software will help guide to publish research articles to a person who's articles gets rejected only because of poor formatting as per template.



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Title of the project: WSN Based Infrastructure health Monitoring and audit system

(F. No. 11/10/2015-NEB (G)/04 dated 13/05/2016)

Technical Outcome year wise			
Title of the project	Outcome in terms of product/process development	Current Status Patent filled (if not filed, then authorized reason),	Socially and Economically Relevance
WSN Based Infrastructure health Monitoring and audit system	<ul style="list-style-type: none"> Nominated in the top 50% of the projects under judges category in Transform Maharashtra, Worli, Mumbai under the category Smart & Smarter: Development of sustainable & livable cities. Nominated in the top 50 teams of PROCOM-2017 competition held at Sardar Patel Technology Business Incubator (SP-TBI), Mumbai. Nominated in the final round of 6th CSI-InApp National Student Project Awards 2017, Trivandrum, Kerala. Nominated in the final round of Dr. APJ ABDUL KALAM Innovation Ecosystem national level project competition, Chennai, Tamilnadu. Nominated in the final round of Best Innovation Awards national level project competition organized by GHR Labs, Wagholi, Pune. Participated in Project Competition-AAYAAM 2017 held at SITRC, Nashik. Showcased ou project idea in cPGCON 2017 a state level event held at Sandip Foundation, 	Indian Patent Filed Application No. 201721022210	<ul style="list-style-type: none"> There is a phenomenal rise in construction activities in the field of civil engineering in the recent years. Major structures like buildings, bridges, dams are subjected to severe loading and their performance is likely to change with time. It is, therefore, necessary to check the performance of a structure through continuous monitoring. If performance deviates from the design parameters, appropriate maintenance is required. The life of a structure depends on initial strength and the post construction maintenance. It is for this reason that the necessity of Infrastructural Health Monitoring (IHM) is emphasized worldwide. With an advent of all new structures coming up and while India is competing in today's competitive global market, one cannot lose track of the stock that India has in older structures both privately and government owned areas. These have known or unknown deficiencies and will not be identified unless a disaster is experienced. However, it is too late then with a tremendous human loss on hand and the figure-pointing to easy targets. This leads to the present state of the poor affairs and needs a careful consideration to be pro-active to conduct infrastructural health monitoring and providing proper solution and then it would be up to the owner, may it be private or government to execute it in the national interest. In India due to negligence and non availability of technology, IHM has not been taken seriously and therefore misses its full potential. If safety standards are emphasized and followed IHM will grow to its full potential and be an integral part of infrastructural maintenance and



Title of the project: WSN Based Infrastructure health Monitoring and audit system

(F. No. 11/10/2015-NEB (G)/04 dated 13/05/2016)

	<p>Nashik.</p> <ul style="list-style-type: none"> Nominated in the top 7 business ideas in the IEI Idea Challenge programme held at The Institute of Engineers (India), Nashik Local Centre. Participated in the Young Innovators Awards initiated by Zee 24 Taas. Nominated upto the 2nd round of KPIT Sparkle 2017 project competition, Pune. Research article entitled RFID and WSN based Structural Health Monitoring published in IEEE International Conference on Engineering and Technology (ICET '16), Coimbatore, Tamilnadu. 		<p>management. Safety is a serious issue and should be addressed properly in the future.</p> <ul style="list-style-type: none"> The structural audit of the infrastructures is done every 5-7 years after the structure is built. The audit is done manually or visually by doing some tests on the structure. This methodology does not give real-time information and accuracy level is also very low. Also, the structures and human life is affected by the natural calamities that occur suddenly. Many lives are lost as people do not get to know what exactly happens at the time of calamities. Hence, continuous and real-time monitoring of an is the dire need for the safety and integrity of infrastructure as well as human life. The IHM system comprises of sensors which sense acceleration, vibration, and water-level and do the wireless communication with the host application. The data will be collected in the database and will generate the audit report. This report will give a detailed knowledge of the damage caused to the infrastructure. At the time of the generation of the warnings offline messages and e-mails will be sent to the authorities. A concept of "closed circuit" is added to the system. If the circuit breaks due to any calamity like the collapse of the bridge then it will give an alarm or warning to the people and also to the host application which will ultimately drop down the boom barriers indicating that the infrastructure is under danger. If there is any other problem like the rising of the water-level then signals will be given on the bridge that will notify the people that water-level has risen and the host application will also be notified.
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Title of the project: QR Code Based Smart Card for Personal Health Record (F. No. 11/10/2015-NEB (G)/05 dated 13/05/2016)

Technical Outcome year wise			
Title of the project	Outcome in terms of product/process development	Current Status Patent filled (if not filed, then authorized reason),	Socially and Economically Relevance
QR Code Based Smart Card for Personal Health Record	A PHR service allows a patient to create, manage, and control her personal health data in one place through the web, which has made the storage, retrieval, and sharing of the medical information more efficient. A feasible and promising approach would be to en-encrypt the data before outsourcing. Basically, the PHR owner herself should decide how to encrypt and how to allow which set of users to obtain access to each file. A PHR file should only be available to the users who are given the corresponding decryption key, while remain confidential to the rest of users. Furthermore, the patient shall always retain the right to not only grant, but also revoke access privileges when it feels it is necessary. The patient is considered as owner of the system. The system is responsible for creating the access policies based on the user's professional role.	It's pure software module. As per CRI 2016 guidelines, mere software can't be patented. So, Patent is not filed.	Hospitals uses third party services for managing PHR records of patients. Present system is not secure and a big threat to patients personal data. Proposed system provides unique security which will be based on attribute based encryption. So it is completely depends on patient that with whom he want to report accordingly and make sure that only authorized person can see that report.

