

## 7.3 INSTITUTIONAL DISTINCTIVENESS

The prime motive of the Institution is to mould and empower students in the pursuit of knowledge, values and social responsibility and help them achieve excellence in various fields, thereby also preparing them to face global challenges by providing lot of value added courses and skill development courses. Our Institution has constant stimulating factor for the students in the pursuit of becoming and being an Entrepreneur.


The Institute has established its distinctive approach towards this comprehensive Vision by the means of certificate courses or by allowing the students to organize events to develop their skills, multidisciplinary project development, Entrepreneurship development, Ethical and Human value development.

All the students are motivated to undergo In-plant Training / Internship at industry or research organization or Live-in-Lab for the period during semester vacation.

The overall progress and development of the institution is keenly monitored by improving consistently and to keep this as the basic AIT has its own mission statement which has a unique feature to nurture the student in entrepreneurial way, accordingly we always strive to progress in a unique and innovative manner and have distinctive vision compared to other institutions. According to our mission and vision our college always insists all the students to experience the Engineering in more practical way rather than acquiring the knowledge alone.

Our college has structured a more interactive Mentoring system where every 15 mentee students a faculty member will be allocated as a mentor to address their grievances and issues in their college life and personal life. The faculty mentor will look in to the issues and give most sorted amicable solutions to the students and makes them to follow the right path without any deviation, and the mentee students are consistently motivated to present themselves in various curricular, co-curricular and extra- curricular along with sports activities in and around the colleges to get outside exposure to the students.



  
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## AIT STUDENTS CLUB

The clubs available at AIT allows the students to share their opinions and ideas with students from different departments and years. By engaging in club activities, their inter-personal skills will be improvised. Some of the clubs in our college is listed below

- ❖ Eco Club.
- ❖ Melodia Club.
- ❖ Rotaract Club.
- ❖ Photography Club.
- ❖ Fine Arts Club

Club Activities like Go Green Activity through sapling plantation, Blood Donation, Visiting Hospitals, Free health awareness camp cum health checkup and visiting nearby villages and helping them according to their requirements have been organised.

- ❖ College has membership of ISTE, Intel FICE, Wipro MISSION 10X and SIEMENS PLC&SCADA. This Special laboratories provides a platform for the faculty and students to participate in various workshops, lectures and seminars organized by these associations.
- ❖ Consultancy services are provided in areas of 'Product Development' through Trident Pneumatics Pvt Ltd.
- ❖ College organizes Annual Cultural event called "UTSAV" – an ethnic cultural and technical fest. More than 500 students have been participated in those events and won many accolades in this Inter College Fest.
- ❖ Our college has a strong feedback of student, parents and alumni and the feedbacks are taken into account to improve the facilities in future.



*J. Soman*

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## ENCOURAGING STUDENTS TO PARTICIPATE IN HACKATHONS

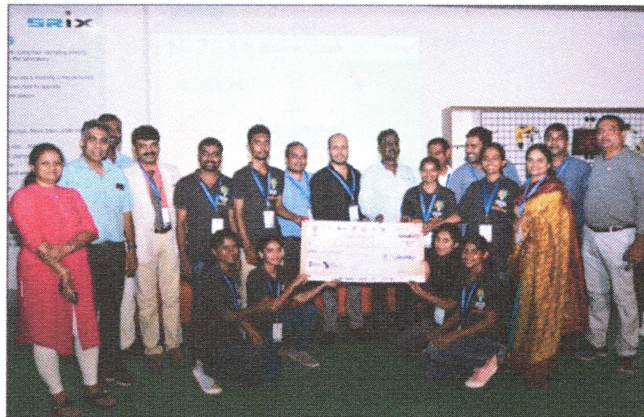
### ADITHYA INSTITUTE OF TECHNOLOGY COIMBATORE

CIRCULAR NO - 1 / 2019 - 20

Date: 13.07.2019

AIT feels proud to appreciate and recognize Mathivadhani A, Dhina R, Yogarani K, Thenmozhi M, Krithigasree R and Sapna Kumari Pandey (III ECE Students), who won **First Prize (Rupees One Lakh Cash Prize)** in the national level finals of **Smart India Hackathon 2019 Hardware Edition**, held at NIT, Warangal on 11<sup>th</sup>&12<sup>th</sup> July 2019.


Hearty Congratulations to Mr.Muthukumar, AP/ECE & Ms.Sherine Mary, AP/ECE for their constant technical support and motivation which have enabled them reach this great height.



All your diligent work and commitment are paid off with your win today. You are surely a great source of inspiration for others. Congratulations once again on your achievement and we trust you will keep up this innovative spirit all through your professional life. Sky is the limit!

  
CEO



  
Principal  
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## INSTITUTION INNOVATION COUNCIL (IIC)

Institution Innovation Council (IIC) of Adithya Institute of Technology has acquired Four Golden Star in the calendar year 2018-19 and got Four and Half Golden Star in the calendar year 2019-20. Four and half Golden stars have been awarded for active participation in IIC events, Smart India Hackathon and submission of Innovative Ideas. IIC is an initiative of Ministry of Human Resource Development (MHRD), Government of India to impart and develop innovation and entrepreneurship skill of the students. AIT has conducted various events including webinars, workshops, field trips and Idea competitions, under IIC.



## IIC CERTIFICATE FOR THE CALENDER YEAR 2018-19



  
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## INSTITUTION INNOVATION COUNCIL (IIC)



## IIC CERTIFICATE FOR THE CALENDER YEAR 2019-20



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## PATENTS PUBLISHED

**FOUR PATENTS HAS BEEN PUBLISHED IN THE JOURNAL OF PATENT**

**1. CENTRIFUGAL TYPE ATOMIZER**

(OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue No. 10/2019 Dated 08/03/2019, Page No. 10330)

**2. AUTOMATED VIBRATION MONITORING EQUIPMENT**

(OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue No. 48/2019 Dated 29/11/2019, Page No. 56145)


**3. ENGINE OIL CONDITION MONITORING SYSTEM**

(OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue No. 44/2020 Dated 30/10/2020, Page No. 55393)

**4. DESIGN AND FABRICATION OF EXCAVATOR ASSIST WITH WHEEL**

(OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue No. 07/2021 Dated 12/02/2020, Page No. 6813)



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941007384 A

(19) INDIA

(22) Date of filing of Application :26/02/2019

(43) Publication Date : 08/03/2019

(54) Title of the invention : CENTRIFUGAL ATOMIZER CUM MIST SPRAYER

(51) International classification :B05B5/00  
 (31) Priority Document No :NA  
 (32) Priority Date :NA  
 (33) Name of priority country :NA  
 (86) International Application No :NA  
 Filing Date :NA  
 (87) International Publication No :NA  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

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(57) Abstract :

This invention encloses the design of centrifugal atomizer type air cooler. In a tropical country like India, industrial sheds are constructed with masonry walls and asbestos cement sheet roofs, which have higher-cooling load. Air conditioning of such sheds using conventional Mechanical Vapour Compression type air conditioning systems are practically difficult and hence not practiced. Evaporative cooling will, be a suitable alternative. The commercially available wetted pad type evaporative coolers are capable of cooling smaller air volumes and hence are not suitable for cooling large industrial sheds, which require large cold air volumes. Also nozzle spray system not affordable and it requires pressurized air and clogging at the nozzle tip becomes a major issue. In this context, we proposed a centrifugal atomizer type evaporative air cooler; suitable for cool the air in large industrial sheds located in tropical climates. It has a main frame, air filter, axial flow fan, spinning disc, breaker strip assembly, water supply system, evaporation chamber, side covers and water droplet eliminator. The system is being designed to fit for all places where the cooling air is required. As the system design is simple and portable, it can be placed anywhere. Hence, from this invention, the rate of cooling achieved is more than the conventional type coolers with minimum cost.

No. of Pages : 10 No. of Claims : 12



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(22) Date of filing of Application :11/11/2019

(43) Publication Date : 29/11/2019

(54) Title of the invention : AUTOMATED VIBRATION MONITORING AND CONTROL SYSTEM

(51) International classification :G05B23/02  
 (31) Priority Document No :NA  
 (32) Priority Date :NA  
 (33) Name of priority country :NA  
 (86) International Application No :NA  
 Filing Date :NA  
 (87) International Publication No : NA  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

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(57) Abstract :

AUTOMATED VIBRATION MONITORING AND CONTROL SYSTEM This invention encloses the product which is used in the advancements and challenges of vibration in industrial and automotive machines. Vibration is a major source for the origin of failure, to mitigate the impact of vibration in the system"s, we can decrease the intensity of the source of vibration by analysing the system for a period of time to find the maximum withstand-able limit. Vibration sources can be characterized using measurements from accelerometers from that we analyse the vibration and measurements to determine what structural improvement, vibration damping and or isolation strategy can be implemented to mitigate the impact of vibration. The available vibration monitoring equipment"s will analyse the machine in a periodic manner and it"s a kind of semi-automated system. It has many drawbacks like complex setup and criticality in circuits. In this context we proposed an Automated Vibration Control Monitoring System which is portable easy to continuously monitor and to control the equipment should be maintained. The system is being designed to fit for all places where the rotating element is present and where ever the vibration occurs. As the system design is simple and portable, it can be placed anywhere. Hence, from this invention, the vibration from the equipment is not only monitored and it can be controlled to avoid major problem in later stages.

No. of Pages : 10 No. of Claims : 13



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(22) Date of filing of Application :21/10/2020

(43) Publication Date : 30/10/2020

(54) Title of the invention : ENGINE OIL CONDITION MONITORING SYSTEM

(51) International classification

:G01N  
33/28

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

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(86) International Application No

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: NA

(61) Patent of Addition to Application Number

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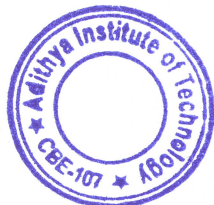
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(57) Abstract :

Abstract: ENGINE OIL CONDITION MONITORING SYSTEM The Engine oil degrades in quality when it used for a period of time. In order to find the life time, a device has been developed. This system comprises the sensor, controller, power supply unit and display LED. A sensor is used to identify the amount of impurities present in the oil. This sensor will send the signal based on the amount of light is scattered. Microcontroller receives the signal from sensor and processed itself and send the signal to the LED, based on the oil condition the LED glows as Green, Blue and Red. Green indicates the oil can be used further and Blue indicates the oil will be changed very sooner and Red LED is an alarm to change the oil immediately and not advisable to operate the engine further.

No. of Pages : 7 No. of Claims : 5



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The Patent Office Journal No. 44/2020 Dated 30/10/2020

55393



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141004835 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 12/02/2021

(54) Title of the invention : DESIGN AND FABRICATION OF EXCAVATOR ASSIST WITH WHEEL

(51) International classification

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E02F0003960000,  
E02F0009120000,  
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(31) Priority Document No

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(33) Name of priority country

:NA

(86) International Application No

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:NA

(87) International Publication No

: NA

(61) Patent of Addition to Application

:NA

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

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(57) Abstract :

Normally all the excavators are attached with wheels and tracks based on their purpose of solving their requirements. The wheeled excavators are made for the construction field which the requirements less than the tracked excavator so that these wheeled excavators are can be transported on their own as they are assisted with wheels. The tracked excavators are used for the purpose of heavy duty one. The tracked excavators are transported to another place with the help of the heavy duty trucks. They need to load the excavator on the truck and they need to transport it to the required place and then it is needed to be unloaded from the truck and the attachments are to be fitted along with the excavators according to the need of the requirements. Hence the additional truck wages are to be paid to the truck vendors. There is no system to reduce the truck wages. This system is helps to overcome the wages and the truck transportation. This system is to assist the excavator with the additional wheels and also it can be lifted up when it is not necessary. For that we use the main hydraulic line which powers the hydraulic motor to propel the additional wheels. So that it will be an efficient one. The additional wheels are attached with the hydraulic lifting system so that it can be easily lifted up and down when it is needed.

No. of Pages : 7 No. of Claims : 7



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