

**B.M.S. COLLEGE OF ENGINEERING**  
(Autonomous College Affiliated to Visvesvaraya Technological University, Belgaum)  
Bull Temple Road, Basavanagudi, Bangalore-560019

**Department of Electronics and Telecommunication Engineering**



**REPORT ON**

**INDUSTRIAL VISIT**

**Date: 24<sup>th</sup> May 2022**

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## **ZSCALER SOFTECH INDIA PRIVATE LIMITED**

Zscaler Softech India Private Limited is an unlisted private company. Zscaler is a cloud security company, headquartered in San Jose, California. It is classified as a private limited company and is located in Bangalore, Karnataka.

Zscaler is a product based company which has brought a unique solution for cloud security service of data and provide Secure Web Gateways.

Zscaler uses Cloud and IOT to provide security for the data. Zscaler was founded in 2007 by Jay Chaudhry and K. Kailash and announced the general availability of its cloud security service in August 2008. It was named one of 10 start-ups to watch in 2009 by Network World.

The traditional methods uses a firewall after which the data is trusted once the data passes through the firewall. There may be a malware or malicious data which causes harm for the data, this can corrupt the file.

### **OBJECTIVE OF ZSCALER SOFTECH INDIA PRIVATE LIMITED**

Zscaler uses the policy of “ZERO TRUST EXCHANGE” which creates a perimeter around the network. Zscaler believes that Internet is the only network. Zscaler Cloud verifies every single data packet before the data packet is routed to the internet. Zscaler cloud can also set policies i.e., it allows a particular model according to the client’s requirement. Fishing Links is also identified by Zscaler.

The content covered in Zscaler was about the products of Zscaler Softech India Private Limited. Hence, they are:

The Zscaler Zero Trust Exchange is the platform that powers all Zscaler services to securely connect users, devices, and applications over any network. The platform is based on a proxy architecture, leveraging the zero trust principle of least-privileged access to secure internet, SaaS, and private application access. The Zscaler Zero Trust Exchange also protects applications and workloads.

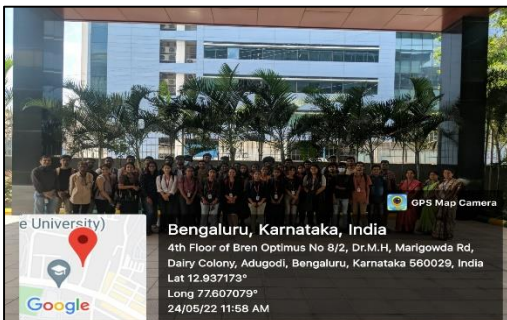
Zscaler Internet Access (ZIA) is a secure internet and web gateway delivered as a service from the cloud. ZIA includes multiple security engines, such as cloud firewall, intrusion prevention system (IPS), data loss prevention (DLP), bandwidth control, browser isolation, cloud access security broker (CASB), and sandbox. By detaching security and access controls from the network and delivering them from the cloud, ZIA can provide identical security and policy enforcement no matter where connections occur, in the headquarters, a branch office, or remote locations.

Zscaler Private Access (ZPA) provides zero trust access to private applications running in public clouds or within the data center. ZPA shields applications from the internet, making

them invisible to unauthorized users. Users are never placed on the network. ZPA ensures that only authorized users have access to specific private applications without providing access to the network. ZPA creates secure segments of one between an authenticated user and a named application, brokering the connection in the Zscaler Zero Trust Exchange.

Zscaler Cloud Protection (ZCP) is a service that automatically remediates security gaps, minimizes the attack surface, and eliminates lateral threat movement. ZCP helps organizations secure workload configurations and permissions, secure user access to cloud apps, and secure app-to-app communications.

Zscaler Digital Experience (ZDX) provides end-to-end visibility, from the user to the application, and quickly isolates issues that can impact performance, whether it is on the user's device (endpoint), the local network, the internet (ISP), or the application itself in the cloud or data centre.



## **STELLAPPS TECHNOLOGIES PRIVATE LIMITED**

Stellapps is an end-to-end dairy technology solutions company – the first of its kind in India. We are an IIT-Madras incubated company founded by a group of IITians and technologists with a strong industry background and rich experience including IIT-Madras, IIT-Kharagpur and IIM.

Stellapps is funded by Omnivore Capital – a fund anchored by Godrej Agrovet Limited and investment patrons include a large group of IIT alumni.

SmartMoo IoT router and in-premise IoT Controller acquire data via sensors that are embedded in Milking Systems, Animal Wearables, Milk Chilling Equipment & Milk Procurement

Peripherals, and transmit the same to the Stellapps SmartMoo Big Data Cloud Service Delivery Platform (SDP) where the SmartMoo suite of applications analyse and crunch the received data before disseminating the Analytics & Data Science outcome to various stakeholders over low-end and smart mobile devices.

### **CONTENTS COVERED IN STELLAPPS**

The contents that were covered during Stellapps visit were, how their organization works, what are the products and their usage.



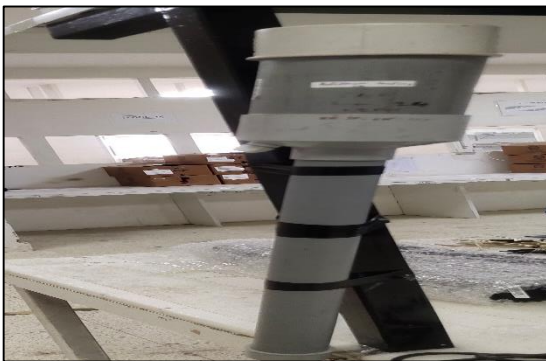
The above two figure is called the cooling tank. Here, the milk will stored and cooled to certain temperature. Usually, this cooling tank can take up to 356L of milk. Hence, there is a rotor inside the cooling tank for stirring and keeping the milk cool.



In the above two figures, the first figure is the conTrak V1 and V2. ConTrak V1 is the traditional machine which measures the how many litre the milk is and what is the temperature of the milk. ConTrak V2 is the advanced version of ConTrak V1. Hence, these machine measures and sends to ConTrak V2.



This machine receives all the information which is sent by ConTrak V2. All the information received from the V2 will be sent to Cloud. Hence, this the medium where it receives information from V2 and sends those information to cloud. Therefore, all the information will be stored in the cloud.



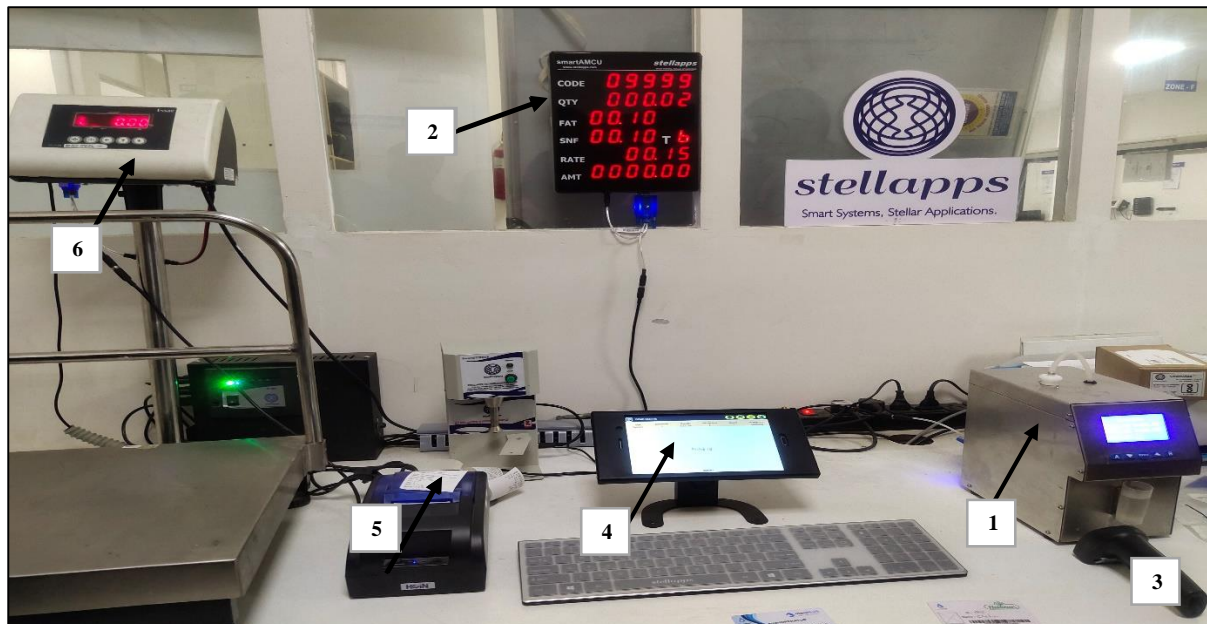
In the above figures, it is the hardware part where the black machine which is called as Bluetooth, is tied to the cow's leg. The machine checks whether the cow is healthy or not, what are the current issues in cow, what is the temperature of the milk and many other health related factor is checked and measured by that black machine.

It works upto 5-6 Km radius around the station is located. Hence, all those information is stored in the machine. It has a built-in Wi-Fi system. Hence, all these information will be sent to cloud again. Therefore, we can get to know health related information of the cow.





The two cards represents the identification of farmer and stellapps. One card on the left, is the farmer identification card for using stellapps, as it contains ID and Name of the consumer using the product. The other card is the stellapps identification card.



1. It is called as Stirrer. Here, a small amount of milk is taken and stirred to remove the bubble contains in the milk and also it is used for testing the milk. Therefore, it measures Quality, Fat, and SNF. The rate and amount of the milk is decided upon the fat and SNF contains in the milk. It measures the quality of the milk whether it is good or bad.

2. It displays the Quality, Fat, SNF, Rate and Amount of the milk.

3. It is the scanner used for scanning the cards.

4. It is Wi-Fi computer where all the value measured is noted down.

5. It is basically a printer which prints all the value measured.

6. It is the measurement tool used for measuring the milk.

Hence, all the system are interconnected to each other with Wi-Fi and all the information will be stored in cloud.



<b>Particulars</b>	<b>Number of Faculty</b>	<b>Non-Teaching Staff</b>	<b>Students</b>
Total Number of Participants	Three	Two	42

Industry Visit - 2 scales & Stellapps  
24/5/2022

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