

**INDUSTRY APPLICATIONS CHAPTER
THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS INC
KOLKATA SECTION**



IEEE Lecture

Topic	A New Approach to Automation of CTC Tea Manufacturing Process
Speaker	Mr. Amit Banerjee, Director, Intellixa Private Limited
Date & Time	24th September, 2020 (Thursday), 6:00 PM - 7:00 PM
Venue	Google Meet (online); Link: meet.google.com/phw-nvgz-srv
Contact	Suvarun Dalapati (suvarundalapati@yahoo.co.in)

About the speaker:

Amit Banerjee received the B. Tech. degree in Radio-Physics and Electronics from Calcutta University in 2000. He has more than 20 years' experience in the field of Embedded Systems including Hardware and Firmware/software development. He has worked with several reputed firms such as M/s Andrew Yule / Webfil Limited in the field of Railway Product Development, M/s Larsen and Toubro Limited for Energy Management System including AMR for Power Transco, M/s Stesalit Limited for Factory Automation for CTC Tea Manufacturing and also in the field of IoT application for Agro field - including real time data collection from the field and transfer to the cloud for further processing. (for Stesalit Systems Limited in association with IBM).

Currently he is the Director of M/s Intellixa Limited, a firm dealing with product development in the above fields.

Abstract of the talk:

Tea manufacturing is normally carried out in two ways, CTC and orthodox. CTC refers to the Crush, Tear & Curl process, which is well known as dust tea or granular black tea. The technology used in CTC tea manufacturing was developed in early 20th century and till today, almost all companies are using the same old age machinery. The Industry is mainly dependent on labour and human intervention is necessary in every process to ensure the quality of the output.

At present very few companies are using process automation in tea manufacturing. Only the Instant Tea manufacturers are using complete automation, but the number of such companies is limited to less than 10 in India. Nowadays, availability of labour and increase of wages are the main concern for the industries. Over the last three years, the wages have increased by more than 45% whereas the price of Tea has increased by only 12-15% and per unit production cost is increasing every day.

India being the second largest exporter of black Tea, lots of scope are there in automation in Indian Tea manufacturing. The task is to overcome the challenges and educate the people to use modern technology to improve the quality and reduce the per unit production cost.

This talk focuses on the above aspects of CTC tea-manufacturing and gives a basic idea regarding the processes involved.

Duration: 1 hour (approx.)