

A project report

On

**Performance Evaluation & Strategic Analysis of Water
Quality for Wastewater Treatment Plant: A Sustainable
Study of Cadbury Gwalior**

Conducted at:



**Mondelez India Foods Private Limited
(Formerly Cadbury India Limited)
Gwalior (M.P.)**

Submitted By

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**Performance Evaluation & Strategic Analysis of Water
Quality for Wastewater Treatment Plant: A Sustainable
Study of Cadbury Gwalior**

A thesis submitted

in partial fulfillment of the requirement for the degree of

Master of Technology in Industrial Biotechnology

Submitted By

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To Whomever It May Concern

This is to certify that Prakhar Rathore, student of **Delhi Technological University, New Delhi**, has undergone training in our organization **Mondelez India Foods Private Ltd (Formerly Cadbury India Ltd.)**, at Malanpur unit, from **February 2, 2015 to June 2, 2015** and completed his summer internship/project in "**Performance Evaluation and Strategic Analysis of Water Quality for the Water treatment Plant**" in the Environment Health and Safety Department under the guidance of Suman Mandal, EHS Manager.

His conduct and progress during the internship was good.

We wish him success in all his future endeavors.

For Mondelez India Foods Limited


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DECLARATION BY THE CANDIDATE

I hereby declare that the report entitled, “**Performance Evaluation & Strategic Analysis of Water Quality for Wastewater Treatment Plant: A Sustainable Study of Cadbury Gwalior**” submitted by me to Delhi Technological University, Delhi in fulfillment of the requirement for the award of the degree of **M.Tech Industrial Biotechnology** is a record of bonafide research work carried out by me under the guidance of Mr. Suman Mandal , EHS Manager, Cadbury. I, further declare that the work reported in this report has not been submitted, and will not be submitted, either in part or in full, for the award of any other degree or diploma of this University or of any other institute or university.

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ABBREVIATIONS

ACF - Anaerobic Contact Filter

BOD - Biochemical oxygen demand

COD - Chemical oxygen demand

DO - Dissolved oxygen

ETP- Effluent treatment plant

MBR - Membrane bioreactor

mg/L - milligrams per liter

SS – Suspended solids

STP - Sewage Treatment Plant

TSS - Total suspended solids

TDS - Total dissolved solids

UASB - Up flow Anaerobic Sludge Blanket

WWTP - Waste Water Treatment Plant