

# **Gyanmanjari Science College**



## **Expert Talk**

**Expert: Dr. Arvind kumar**

**chief Scientist at**

**Central Salt & Marine Chemicals Research Institute**

**Council of Scientific & Industrial Research**

**G. B. Marg, Bhavnagar 364002, Gujarat, India**

**Title: Introduction of Salt and Marine Chemicals**

**Date: 02-09-2023**

**Prepared By: Prof. Nisha Rajani**

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## ➤ **Acknowledgement**

We are thankful to our honorable principal Dr. H M Nimbark, our faculties who have fulfilled the need of Expert Talk arranged on 2<sup>nd</sup> September, 2023

We are especially thankful to Dr. Arvind kumar for share his expertise and informative lecture.

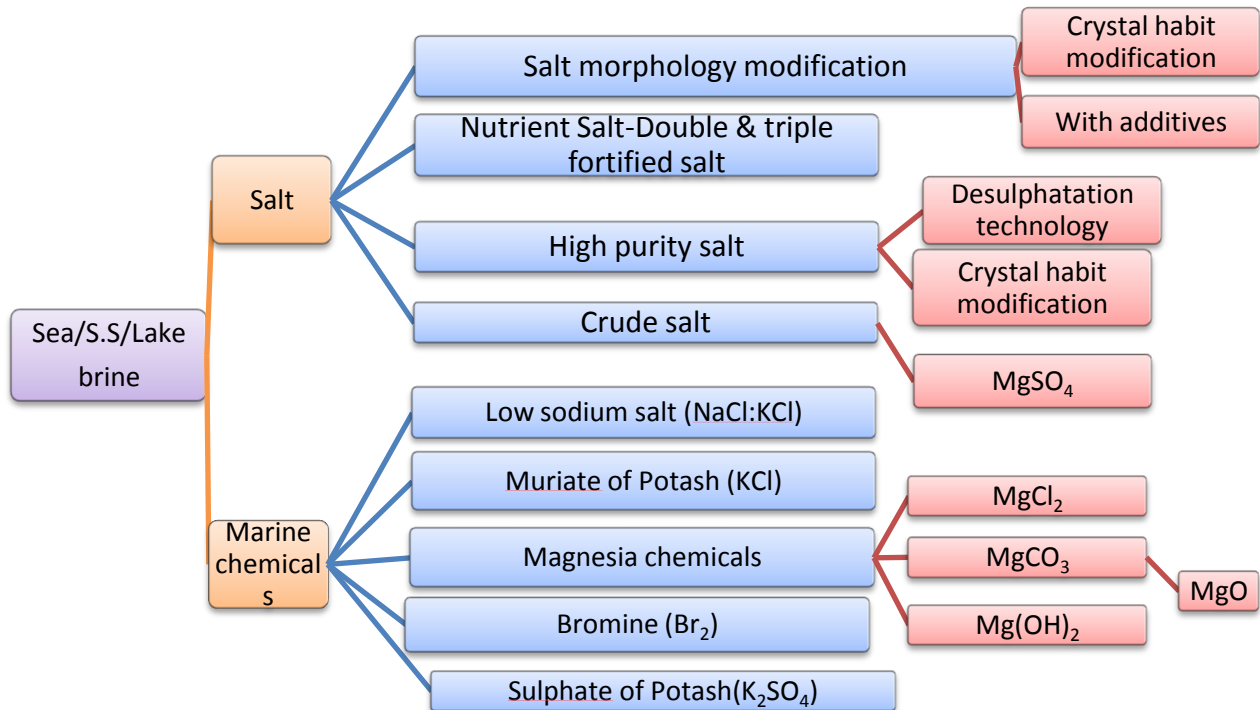
## ➤ **Information about Expert Talk**

An informative and thoughts provoking lecture as Guest Speaker on **“Introduction of Salt and Marine Chemicals”** held at Gyanmanjari Science College, Bhavnagar. It was really a splendid presentation which exposed students to the field practices. All the students appreciated and got benefited from your views on the subjects. Scope of jobs or further study after B.Sc and M.Sc.

Expert talk was delivered by Dr. Arvind Kumar, Chief scientist at Central Salt & Marine Chemicals Research Institute (Council of Scientific & Industrial Research), G. B. Marg Bhavnagar 364002, Gujarat, India. 80 students attended the expert talk.

# Overview of expert talk

## ➤ Activities of Salt & Marine chemicals division



## ➤ Application of salt and its importance

### Industrial Application



- Chlor-alkali (NaOH)
- Soda Ash ( $\text{Na}_2\text{CO}_3$ )
- Dyes & Drugs- Textile's dyes and pharmaceuticals
- Glass industries

### Edible Application



- As Test developer : Iodized salt, Double Fortified Salt (DFS)
- As Preservatives: Butter, cheese, salad, potato chips, soft drinks, Fish curing



### Detoxification

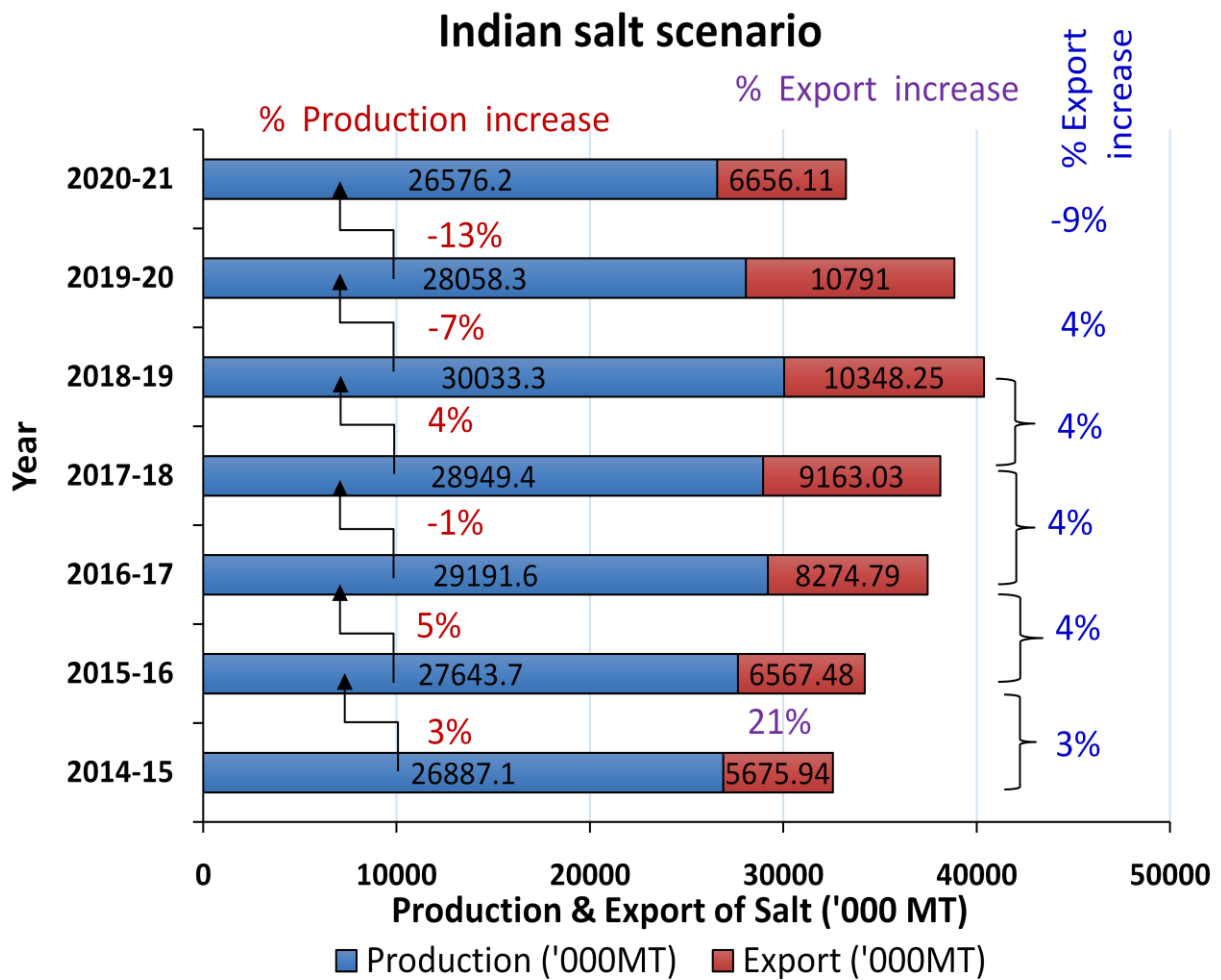


### Deicing

- In USA and Europe country

- Salt has long been used for flavoring and for preserving food.
- It has also been used in tanning, dyeing and bleaching, and the production of pottery, soap, and chlorine.
- Industrial salt is often used in an oil drilling rig to make it more efficient and safer.
- Other than this, industrial salt is utilized as an additive in mud used as drilling fluid.
- Salt applications in the oil industry can also serve as flocculants, diverting agents, acidizing specialty additives, thinners/dispersants, and stabilizers.

## ➤ Scenario of Indian salt Production



- India is the third largest salt producer in the world after the US and China.
- About 30 million tones of salt is produced in India every year.
- India exports around 10 million tones of salt while 125 million tones of salt is used in industries.
- India exports salt to more than 55 countries.
- Gujarat accounts for over 76 per cent of India's total salt production.
- Apart from Gujarat, salt is produced in Rajasthan, Tamil Nadu, Andhra Pradesh and Maharashtra.

## ➤ Snaps of the Expert Talk



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**EXPERT TALK**



**DATE: 2/09/2023**



Survey No. 30, Sidsar Road, Near Iscon Eleven,  
Bhavnagar

## ➤ **Conclusion:**

Expert talk of Dr Arvind Kumar was very informative and for all students for their advancement in future and who are interested in industry, research and business. Through this expert talk students got the knowledge about field of chemistry and microbiology and its application in advance manufacturing process. He had also explained about departmental activities of the industry. Through this expert talk students got the knowledge about various field of microbiology, chemistry and its application in advance level. Students got idea about how to choose field for their future like business or job. Thus this expert talk can help the students to understand the values of industrial parameters more effectively.



**Thank You**