

**FIELD PROJECT**

**ON**

**SAGAR CEMENT**

**(INDUSTRIAL VISIT)**

**ACADEMIC YEAR 2019-20**

**DEPARTMENT OF CHEMISTRY**



**No. of Students: 30**

**KRR GOVT. ARTS & SCIENCE COLLEGE, KODAD**

**DIST: SURYAPET-508206**

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**PRINCIPAL**  
K.R.R. Govt. Arts & Science Coll.  
Kodada-508 206, Suryapet Dt.(T.S.)

Kodad,  
Date: 11-03-2020.

To  
The Principal,  
KRR Govt. Arts & Science College,  
Kodad.

Sir,

Sub: Permission for Field Project on "SAGAR CEMENT"  
(INDUSTRIAL VISIT) -Req.-Reg.

@@@

Department of Chemistry wants to organize Field Project on "SAGAR CEMENT" (INDUSTRIAL VISIT) to students educate the Knowledge about "SAGAR CEMENT". Kindly permit us to conduct the programme.

Thanking you Sir,

Yours faithfully



Department of Chemistry  
KRR Govt. Arts & Science College,  
Asst. Professor in Chemistry  
KRR Govt. Arts & Science College  
Kodad.  
Kodad-508206, Nalgonda Dist. (T.S)

## NOTICE

Date: 11-03-2020


All the Students are here by informed that Field Project on "SAGAR CEMENT" (INDUSTRIAL VISIT). For U.G Students on 12-03-2020 by Department of Chemistry. All are requested to attend without fail.



KRR Govt. Arts & Science College,  
**Asst. Professor in Chemistry**  
KRR Govt. Arts & Science College  
Kodad-508206, Nalgonda Dist. (T.S)

**KRR GOVT. ARTS & SCIENCE COLLEGE, KODAD**  
**DEPARTMENT OF CHEMISTRY**  
**LIST OF THE STUDENTS ENROLLED FOR FIELD PROJECT**

S.NO	H.NO	NAME OF THE STUDENT	COURSE	FIELD PROJECT	YEAR
1	17044019445021	N SRILEKHA	II BZC E/M	<b>FIELD PROJECT ON "SAGAR CEMENT" (INDUSTRIAL VISIT)</b>	<b>2019-20</b>
2	17044019445001	A LAVANYA	II BZC E/M		
3	17044019445002	A NAGAMANI	II BZC E/M		
4	17044019445003	A S NIREEKSHAN	II BZC E/M		
5	17044019445004	B RENUKA	II BZC E/M		
6	17044019441016	M RAJINIKANTH	II MPC E/M		
7	17044019441018	N ISSAQ	II MPC E/M		
8	17044019441023	R ANUSHA	II MPC E/M		
9	17044019441026	Y MANIRAJ	II MPC E/M		
10	17044019441504	D VENKATESH	II MPC T/M		
11	17044019441508	V SANDEEP	II MPC T/M		
12	16044019445029	M ASHOK KUMAR	II BZC E/M		
13	17044019441004	B THRIVENI	II MPC E/M		
14	17044019441005	B TIRUPATAMMA	II MPC E/M		
15	17044019441011	G THRIVENI	II MPC E/M		
16	17044019441013	K VENKATESH	II MPC E/M		
17	17044019445503	B TIRUPATAMMA	II BZC T/M		
18	17044019445507	D BHARATH KUMAR	II BZC T/M		
19	17044019445510	M HARICHANDRU	II BZC T/M		
20	17044019445513	R SAKRU	II BZC T/M		
21	17044019445016	K VANITHA	II BZC E/M		
22	17044019445022	N THRIVENI	II BZC E/M		
23	17044019445502	B SRAVANI	II BZC T/M		
24	17044019441009	D CHANDRAKALA	II MPC E/M		
25	17044019441014	K SHARATH	II MPC E/M		
26	17044019441002	B VENKATESWARLU	II MPC E/M		
27	17044019441507	S SAIRAM	II MPC T/M		
28	17044019445020	M SINDHU	II BZC E/M		
29	17044019572014	L KOTESH	II BIO		
30	17044019572011	K VEERABABU	II BIO		

Sign of the Lecturer 

Name of the Lecturer M. Nagu

Designation Asst. Prof. of Chemistry

**Asst. Professor in Chemistry**  
**KRR Govt. Arts & Science College**  
**odad-508206, Nalgonda Dist. (T.S)**

**INDUSTRIAL VISIT**  
**AT**  
**“SAGAR CEMENT”**



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Asst. Professor in Chemistry  
KRR Govt. Arts & Science College  
odad-508206, Nalgonda Dist. (T.S)



*Hy*  
Asst. Professor in Chemistry  
KRR Govt. Arts & Science College  
Telad-508206, Nalgonda Dist. (T.S)

**FIELD PROJECT REPORT**

**ON**

**INDUSTRIAL VISIT**

**AT**

**“SAGAR CEMENT”**




**ORGANIZED**

**BY**

**DEPARTMENT OF CHEMISTRY**

**KRR GOVT. ARTS&SCIENCE COLLEGE, KODAD**

  
Asst. Professor in Chemistry  
KRR Govt. Arts & Science College  
Kodad-508206, Nalgonda Dist. (T.S)

## Introduction:


- ❖ This study evaluates cement manufacture. Cement is any substance which binds together other materials by a combination of chemical processes known collectively as setting. Cements are dry powders and should not be confused with concretes or mortars, but they are an important constituent of both of these materials, in which they act as the 'glue' that gives strength to structures. Cement is an extremely important construction material. Cements used in construction can be characterized as being either hydraulic or non-hydraulic.
- ❖ The first step in the manufacture of cement is to combine a variety of raw ingredients so that the resulting cement will have the desired chemical composition. These ingredients are ground into small particles to make them more reactive, blended together, and then the resulting raw mix is fed into a cement kiln which heats them to extremely high temperatures.
- ❖ The basic mixture of cement industry consists of Chalk, Lime stone, Clay, Calcium carbonate, Silicon oxide, Aluminum oxide and iron (II) oxide.
- ❖ Portland cement is by far the most common type of cement in general use around the world. This cement is made by heating limestone (calcium carbonate) with other materials (such as clay). Raw Materials processing included: Setting and curing and cement manufacturing process, Process Discretion: Wet process, Semi-dry process, Dry process and Finish process.
- ❖ The environmental impact of the cement production and its variations between different cement plants, using Life Cycle Impact assessment. For that purpose, details of the cement production processes are investigated in order to show the respective part of raw materials preparation and clinker production using

## Objectives:

- ❖ To enhance the awareness about "SAGAR CEMENT" (INDUSTRIAL VISIT) amongst students.

## Role of Department of Chemistry, KRR Govt. Arts & Science College, Kodad:

- ❖ The Department of chemistry, KRR Arts & Science College, Kodad was entrusted with the responsibility to organize and conduct Field Project on "SAGAR CEMENT" (INDUSTRIAL VISIT) in the college.

  
Asst. Professor in Chemistry  
KRR Govt. Arts & Science College  
Kodad-508206, Nalgonda Dist. (T.S.)



## Concluding Remarks:

- ❖ The mining sector enters significantly in the cement industry, this sector is considered the most important in terms of extraction, mining, and processing of raw materials.
- ❖ 99% approximately from the raw materials used are considered mining material. Mining methods used in the extraction equipment for a cement raw material considered ways rather easy and inexpensive and most commonly used material extracted from quarries.
- ❖ Considered one of Lime stone and clay the most important raw material for the manufacture of cement different kinds.
- ❖ Mining and processing of raw materials include Setting curing and clinker.
- ❖ Cement process include wet, dry, wet dry process and finish process.
- ❖ Roasting cement Considered one of the most important processing steps where they are roasting constituent components through the roasting oven.
- ❖ After use cement (concrete) greatly affect on the environment in general, Bust greatly affect the soil and groundwater.
- ❖ Environmental and health effects of pollutants resulting from the cement industry include environmental impact caused by emissions into the air liquid waste disposal of solid waste.



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