



**THE CHEMISTRY DEPARTMENT,  
MKR GOVERNMENT DEGREE COLLEGE, DEVARAKONDA**

On

**“DETECTION OF FOOD ADULTERANTS”**



Supervised by

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This is to certify that the following mentioned students of MKR Govt. Degree College, Devarakonda, Nalgonda (dt) have done the group project in Chemistry with title: **'DETECTION OF FOODADULTERANTS'** under the supervision of Dr. M. Alivelu, Assistant professor of Chemistry of this college and submitted the same to the department of Chemistry, MKR GDC Devarakonda.

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## **1. INTRODUCTION:**

The Objective of this project is to study some of the common food adulterants present in different food stuffs.

Adulteration in food is normally present in its most crude form; prohibited substances are either added or partly or wholly substituted. Normally the contamination/adulteration in food is done either for financial gain or due to carelessness and lack in proper hygienic condition of processing, storing, transportation and marketing. This ultimately results that the consumer is either cheated or often become victim of diseases. Such types of adulteration are quite common in developing countries or backward countries. It is equally important for the consumer to know the common adulterants and their effect on health.

The increasing number of food producers and the outstanding amount of import foodstuffs enables the producers to mislead and cheat consumers. To differentiate those who take advantage of legal rules from the ones who commit food adulteration is very difficult. The consciousness of consumers would be crucial. Ignorance and unfair market behavior may endanger consumer health and misleading can lead to poisoning. So we need simple screening, tests for their detection. In the past few decades, adulteration of food has become one of the serious problems. Consumption of adulterated food causes serious diseases like cancer, diarrhea, asthma, ulcers, etc. Majority of fats, oils and butter are paraffin wax, castor oil and hydrocarbons. Red chilli powder is mixed with brick powder and pepper is mixed with dried papaya seeds. These adulterants can be easily identified by simple chemical tests.

Several agencies have been set up by the Government of India to remove adulterants from food stuffs. Selection of wholesome and non-adulterated food is essential for daily life to make sure that such foods do not cause any health hazard. It is not possible to ensure wholesome food only on visual examination when the toxic contaminants are present in ppm level. However, visual examination of the food before purchase makes sure to ensure absence of insects, visual fungus, foreign matters, etc.

### **1.1 SOME ADULTERANTS IN COMMON FOOD**

Majority of adulterants used by the shopkeepers are cheap substitutes easily available. For example, adulterants in fats, oils and butter are paraffin wax, castor oil and hydrocarbons. Read chili powder is mixed with brick powder, turmeric powder is mixed with yellow lead salts and pepper is mixed with dried papaya seeds. Similarly sugar is contaminated with washing soda and other insoluble substances, milk is adulterated with starch, argemone oil is used to adulterate mustard oil, vanaspati ghee is mixed with deshi ghee, beson is mixed with khesari dal etc. These type of adulterants makes a food stuff inferior.

## **1.2 IMPACT OF ADULTERANTS**

Every day we hear and watch live on television sets how the food items are being adulterated and this spurious, unhygienic and harmful food is entering our houses. We have seen how milk and milk products are being made from urea, soap and other harmful chemicals. We all know that vegetables are being given injections to make them grow faster and overnight. The other day we saw how steroids were being injected to chickens to make them into a hen in a very short span of time. We have also come across evidence as to how the fruits are being ripened with the use of harmful chemicals.

Adulteration of food causes several health problems in humans. Some of the health hazards include stomach ache, body ache, anemia, paralysis, and increase in the incidence of tumors, pathological lesions in vital organs, abnormalities of skin and eyes. Hence food adulteration should be given great importance due to its effect in the health significance of the public. The people are suffering from heart disease, kidney failure, skin diseases, asthma and other chronic diseases. The people are hapless victims of this adulteration industry running in full swing and unchecked.

## **1.3 DIFFERENT CHEMICAL TESTS FOR DETECTION OF ADULTERANTS**

Food adulteration has now become a burning problem. The adulterants used are so similar to natural foodstuffs that it becomes very difficult for a common man to detect them. A few simple tests can be done to detect adulterants found in common foodstuffs.

### **Metanil yellow in pulses:**

Shake 5 gms of the suspected pulses with 5 ml of water. Add a few drops of hydrochloric acid. A pink colour shows the presence of metanil yellow.

**Kesari Dal in Chana or Other Dals:**

Add 5 ml of normal hydrochloric acid to a small quantity of dal in a glass. Keep the glass in simmering water for 15 minutes. Development of pink colour indicates the presence of Kesari dal. By visual detection-shape of dal. The kesari dal is wedge shaped.

**Water in milk:**

Measure the specific gravity with a lactometer. The normal values will fall between 1.030 and 1.034. Milkmen are wise to the test and may dilute the milk only to the right density, so this is only a rough test.

**Starches in milk:**

Add a drop of iodine solution to a small quantity of milk. Milk containing starch turns blue. Pure milk turns a coffee shade.

**Vanaspati in pure ghee:**

Take about one teaspoonful of melted butter with an equal quantity of concentrated hydrochloric acid in a test tube. Add 2 or 3 drops of furfural solution. Shake it well for one minute and let it stand for five minutes.

Appearance of pink colour in the lower layer of acid means that vanaspati is present in pure ghee/butter as an adulterant.

**Argemone oil in mustard oil:**

Heat the mixture of oils with a little amount of nitric acid for two to three minutes. A red colour will appear if argemone is present.

**Chalk or any other dust or dirt in sugar:**

Dissolve sugar in water, the impurities will settle down at the bottom. Etc.

**2. METHODOLOGY:****2.1 Detection of Starch in Milk**

Along with water, a very common adulterant of milk is starch. Milk consists of three basic components which are water (about 80%), fat (about 3.5%) and solids containing protein, lactose and mineral matters (about 8.5%). Milk is adulterated with starch to maintain the thickness of fat extracted milk or diluted milk. The presence of starch can be detected by adding iodine solution to milk.

**Reagent used-** Iodine solution or tincture of iodine.

**Procedure-** At first 5 mL of milk sample is taken in a test tube and is boiled for 3-4 minutes. Then it is cooled and 1-2 drops of iodine solution is added to it and is shaken well.

**Detection-** Appearance of blue colour indicates the presence of starch in the sample.

**Table for different samples-**

S. NO	SAMPLES	RESULT
1.	Amul TAZA	Adulterant absent.
2.	Diary milk	Adulterant present.
4.	Vijaya Dairy milk	Adulterant absent.

## 2.2 DETECTION OF YELLOW DYE IN TURMERIC POWDER

Turmeric (haladhi) powder is a popular natural dye used in cooked food. The powder is often adulterated with rice powder, besan, wheat powder etc. which makes the colour of the turmeric pale. To make the colour bright, often lead chromate, which is a poisonous chemical or coal tar dye is added to turmeric powder.

### A. DETECTION OF LEAD CHROMATE

**Reagents:** Con. HCL and 1% Diphenyl carbazide in rectified spirit.

**Procedure:** 1g of the turmeric powder sample is taken in a test tube and 5ml of concentrated HCL is added to it. The mixture is shaken thoroughly. Now 1ml of 1% diphenyl carbazide reagent is added.

**Detection:** Appearance of pink to red colour indicates the presence of lead chromate,  $PbCrO_4$ , in the sample.

### B. DETECTION OF COAL TAR DYE

**Reagents:** Concentrated HCL and petroleum ether (40-60° C).

**Procedure:** 5g of the sample is taken in a test tube and 10 mL petroleum ether is added to it. The mixture is shaken vigorously and is allowed to stand. 5 mL of conc. HCL is added and is again shaken thoroughly.

**Detection:** The aqueous acid becomes pink to red in colour if coal tar is present.

**Table for different samples**

S.NO.	SAMPLES	RESULT
1.	MDH Haldi powder	Adulterant absent.
2.	Open sample	Adulterant present.
3.	Bharat haldi	Adulterant absent.

### 2.3. DETECTION OF WASHING SODA, CHALK POWDER AND WATER INSOLUBLE SUBSTANCE IN SUGAR

Chalk powder is a water insoluble substance which is often used as a common adulterant in sugar. Moreover sugar is usually contaminated with washing soda.

#### Detection of various insoluble substances

**Reagent:** concentrated  $H_2SO_4$ , alcoholic solution of  $\alpha$ -naphthol, dil HCl.

**Procedure:** A small amount of sugar is taken in a test tube and is shaken it with little water. Pure sugar dissolves in water but insoluble impurities do not dissolve.

**Detection:** Insoluble substances appear at the bottom of the test tube if they are present.

#### Detection of chalk powder, washing soda

**Reagent:** dil. HCl

**Procedure:** To a small amount of sugar taken in a test tube, a few drops of dil. HCl is added and observed.

**Detection:** Brisk effervescence of  $CO_2$  shows the presence of chalk powder or washing soda in the given sample of sugar.

Table for different samples

S.NO.	SAMPLES	RESULT
1.	Open sample	Adulterant present.
2.	Packed sample	Adulterant absent.

### 2.4 DETECTION OF RED COLOURED LEAD SALTS IN CHILLI POWDER.

Chilli powder often adulterated with red are coloured lead salts and brick powders.

**Reagents:** Dil.  $HNO_3$ , KI.

**Procedure:** To a sample of chilli powder dil. $HNO_3$  is added. The solution is filtered and a few drops of potassium iodide solution is added to the filtrate.

**Detection:** Yellow ppt. indicates the presence of lead salts in chilli powder and insoluble substances indicates the presence of brick powder in the sample.



**Table for different samples**

S.NO.	SAMPLES	RESULT
1.	Ashirvad Chilli powder	Adulterant present.
2.	Open chilli powder	Adulterant present.

### 2.5 DETECTION OF KHESARI DAL IN BESON

Beson powder is usually adulterated with khesari dal which contains butyl oxalyl alanine amine (BOAA) which causes lethargy and ultimate paralysis in lower limbs of human body on regular consumption. The detection of BOAA in beson powder indicates adulteration of it with khesari dal.

**Reagents:** dil. HCl.

**Procedure:** To 1g of the beson sample is taken in a test tube and 10 mL of 70% HCl is added to it. The content is boiled for some time.

**Detection:** Development of pinkish colour indicates adulteration of bason with khesari dal.

**Table for different samples**

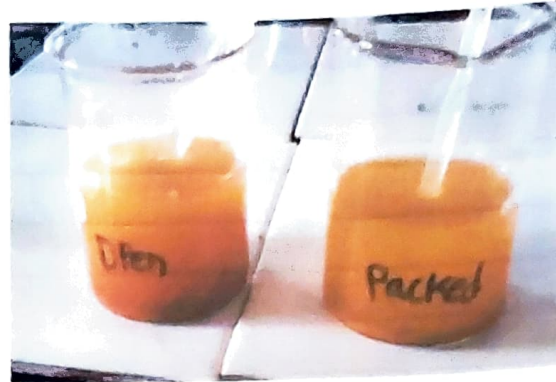
S.NO.	SAMPLES	RESULT
1.	Open sample	Adulterant present
2.	Packed sample	Adulterant present.



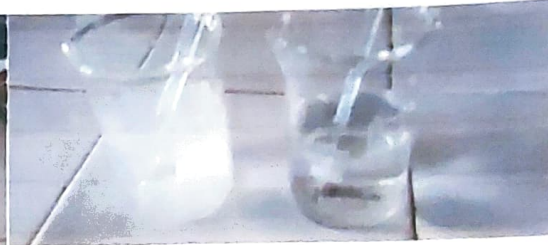
Different milk samples were chemically tested for food adultrants.



Different Chilli powder samples were chemically tested for food adultrants



Different Haldi powder samples were chemically tested for food adultrants.



Different Sugar samples were chemically tested for food adultrants.



Different Besan samples were chemically tested for food adultrants.



### 3. CONCLUSION

Different chemical reactions studied involving in the process of detection of different adulterants in different food items. These experiments were performed for the purpose of detecting various adulterants present in common food. The results obtained during these experiments have been shown in this project. The experiments have been performed by common laboratory methods. Packed samples are far better than open samples as in open samples, possibility of contamination with food adulterants is more.

#### 4. Suggestions:

1. At the time of food purchase consumer needs thorough examination and it can be of great help.
2. Label declaration on packed food is very important for knowing the ingredients and nutritional value. It also helps in checking the freshness of the food and the period of best before use.
3. The consumer should avoid taking food from an unhygienic place and food being prepared under unhygienic conditions.
4. It is always better to buy certified food from reputed shop.

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3. Senior Secondary Practical Chemistry, Dr. KAMALESH CHOUDHURY, Dr. SATYENDRA KUMAR CHOUDHURY, Cotton College Guwahati.

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# ATTENDANCE FOR FOOD ADULTRATION FIELD WORK (from 20,22,23,24,26 of July 2021)

## IV SEM MPSC E/M 2020-21

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## MKR GOVERNMENT DEGREE COLLEGE,DEVARAKONDA

### FIELD TRIP REPORT ON ENVIRONMENTAL STUDIES

MKR Government Degree College, Devarakonda conducted field trip as part of curriculum on Environmental studies on 15/03/2021 with all first year students along with Department of life sciences and other faculty members visited to jelhthanda village and observed their environmental problems.

#### Purpose of the study

The aim of this study is to examine students' field trip as a way of thinking and identifying various aspects and features that are relevant in environmental studies so as to obtain answers that address environmental problems. The aim can be achieved by the following objectives;

- i. To identify the attributes of a good or clean environment and the various forms of interaction between different components/settlements.
- ii. To identify the most common physical environmental problems such as; drainage system, waste management system, road network etc.
- iii. To determine the causes of the existing environmental conditions such as; flooding, slum developments, waste disposal etc.
- iv. To determine how satisfied the residents in these environment or areas visited. This is carried out through the issuance of well structured questionnaire and interviews.

#### Statement of the problems

Most undergraduate students in the nations higher institutions of learning over the years of their studentship do not have a practical knowledge of their physical environment and therefore have little or no idea about the practical requirements in their various fields of environmental studies. This lacuna or deficiency has greatly contributed to the difficulties encountered by students during their first year project work.

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**MKR GOVERNMENT DEGREE COLLEGE ,DEVARAKONDA**

Date & Time: 15/03/2021  
 Name of the Activity: Field Trip on Environmental Studies  
 Title: Field Trip  
 Conducted by: Department of Life Sciences  
 Name of the Organisers: Dr CH Ramaraju  
 Venue of the Program: 30th Maida  
 SIGNATURE OF THE PRINCIPAL: *Chamaraju*

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44	20044026129511	BANAVATH NAVEEN	B. Naveen
45	20044026129512	BANAVATH RAMCHANDER	R. Ramchander
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47	20044026129514	CHATLA CHINTU	Ch. Chintu
48	20044026129515	CHINTHAPALLY NARESH	N. Nareesh
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64	20044026129531	MUDIGONDA RADHA	M. Radha
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66	20044026129533	NALLA SRIKANTH	N. Srikanth
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68	20044026405002	ALLAMPALLY SOWMYA	S. Sowmya
69	20044026405003	AMMADAPELLI PAVITHRA	A. Pavithra
70	20044026405004	ANUSHA KUKKALA	A. Anusha
71	20044026405005	ASHAMONI SWARODPA	A. Swarodpa
72	20044026405006	BALAMONI NARESH	B. Nareesh
73	20044026405007	CHILUKURI BHARDWAJ	B. Bhardwaj
74	20044026405008	CHODOJU ANJANEYULU	Ch. Anjaneyulu
75	20044026405009	GANNEBOINA PAVAN YADAV	G. Pavan Yadav
76	20044026405010	GANNEBOINA SRIKANTH	G. Srikanth
77	20044026405011	GUNDALA SUJATHA	G. Sujatha
78	20044026405012	GUNJI BHAVANI	G. Bhavani
79	20044026405013	JULURU BHAGYA	J. Bhagya
80	20044026405014	KADARI NAGARAJU	K. Nagaraju
81	20044026405015	KAKI KARTHIK REDDY	K. Karthik Reddy
82	20044026405016	KARANAKANTI SAI MAHESH	K. Saibaba



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85	20044026405019	KOTHEM SHRISHNA	K. Shrinna
86	20044026405020	KUMBAM ANIL	K. Anil
87	20044026405021	MACHARLA ANUSHA	M. Anusha
88	20044026405022	MUCHERLA ANITHA	M. Anitha
89	20044026405023	MUDHAVATH RAGHURAM	R. Raghuram
90	20044026405024	NENAVATH RAMBABU	R. Babu
91	20044026405025	NOMULA JHANSI	N. Jhansi
92	20044026405026	PAGILLA VAMSHI	P. Vamsi
93	20044026405027	PALLA SHRAVAN KUMAR REDDY	P. Shraavan
94	20044026405028	PASUNURU SWETHA	P. Swetha
95	20044026405029	RAMAVATH GANESH	R. Ganesh
96	20044026405030	RAMAVATH GOPI	R. Gopi
97	20044026405031	RAMAVATH RAKESH	R. Rakesh
98	20044026405032	RAMAVATH SURESH	R. Suresh
99	20044026405033	RODDA UDAYKUMAR	R. Udaykumar
100	20044026405034	SALIKINENI BHUMIKA	S. Bhumika
101	20044026405035	SANDE RENUKA	S. Renuka
102	20044026405036	TEKULAPALLY VENKATESH	T. Venkatesh
103	20044026405037	THOKALA ANJANEYULU	T. Anjaneyulu
104	20044026405038	THOTAPALLY ANIL	T. Anil
105	20044026405039	VALAMONI MAHESH	V. Mahesh
106	20044026468001	ANGOTHU SHANKAR	A. Shankar
107	20044026468002	CHILUMULA NAVEEN	C. Naveen
108	20044026468003	CHINTHOJU MEENA	C. Meena
109	20044026468004	DHANAVATH SHIVA	D. Shiva
110	20044026468005	ESLAVATH KOTESH	E. Kotesh
111	20044026468006	GADHAM ANEEL	G. Aneel
112	20044026468007	GUNTOJU AJAY	G. Ajay
113	20044026468008	JANGALA POOJITHA	J. Poojitha
114	20044026468009	JHANSI AMBULA	J. Ambula
115	20044026468010	KANAKARAJU NANDU KUMAR	K. Nandu
116	20044026468011	MOHAMMAD UMMAR	M. Umar
117	20044026468012	MOHAMMED MISBAUDDIN	M. Misbauddin
118	20044026468013	M SRIDHAR	M. Sridhar
119	20044026468014	MUDIGONDA AKHIL	M. Akhil
120	20044026468015	NARIMALLA VENKATESH	N. Venkatesh
121	20044026468016	NAZMA SHAIK	N. Shaik
122	20044026468017	NENAVATH NAVEEN	N. Naveen
123	20044026468018	NENAVATH SURENDRAR	N. Surendhar
124	20044026468019	NETHALLA LAKSHMAIAH	N. Lakshmaiah
125	20044026468020	NUNE HYMAVATHI	N. Hymavathi
126	20044026468021	NUTHANAGANTI ANJANEYULU	N. Anjaneyulu
127	20044026468022	PANUGANTI SAI KIRAN	P. Saikiran
128	20044026468023	PATHLAVATH NARESH	P. Naresh

129	20044026468028	PULLALA SHIVA	P. Shiva
130	20044026468029	RAMAVATH RAVI	R. Ravi
131	20044026468030	REVALI SAI SHREESHA	R. Saishreesh
132	20044026468031	THAMMISHETTI NAGARAJU	Nagaraju
133	20044026445001	AKHILA MADDIMADUGU	M. Akhila
134	20044026445002	AMGOTH BALOJI	B. Balaji
135	20044026445003	ANKURI KEERTHI	A. Keerthi
136	20044026445004	DANAVATH MANJULA	D. Manjula
137	20044026445005	DANAVATH NAVEEN	D. Naveen
138	20044026445006	CHITTARI KOUSALYA	C. Kousalya
139	20044026445007	DANDU SRIVANI	D. Srivani
140	20044026445008	GIRI SHIVALEELA	G. Shivala
141	20044026445009	JAGATI PREM KUMAR	J. Premkumar
142	20044026445010	JINKALA SARITHA	J. Saritha
143	20044026445011	KANNE SHIRISHA	K. Shirisha
144	20044026445012	KORRA PADMA	K. Padma
145	20044026445013	KUMBHAM MOUNIKA	K. Mounika
146	20044026445014	MAHESHWARI DUNGUROTH	M. Maheshwari
147	20044026445015	MOHAMMIAD WAHED	M. Wahed
148	20044026445016	MUDAVATH BHAGYA LAXMI	M. Bhagya Laxmi
149	20044026445017	MUDIGONDA KRANTHI KUMAR	M. Kranthi Kumar
150	20044026445018	NAGILLA LAXMI PRASANNA	N. Laxmi Prasanna
151	20044026445019	NAGILLA SAI KUMAR	N. Sai Kumar
152	20044026445020	NAXIREKANTI SHIVALEELA	N. Shivala
153	20044026445021	NAYENI SHIVA	N. Shiva
154	20044026445022	NEELAM NAVEEN	N. Naveen
155	20044026445023	NEELAM SAI KUMAR	N. Sai Kumar
156	20044026445024	PULAKARAM LAVANYA	P. Lavanya
157	20044026445025	RAMAVATH AKHILA	R. Akhila
158	20044026445026	RAMAVATH ANJI	R. Anji
159	20044026445027	RAMAVATH BHARATH	R. Bharath
160	20044026445028	RAMAVATH DEEPIKA	R. Deepika

  
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# DEPARTMENT OF ZOOLOGY



As a part of B.Sc BZC Curriculum one day field trip was organized by Department of Zoology to Devarakonda fort . The major objective was to familiarize the students with the fauna and flora of region.

V. Bichulal lecturer In zoology with B.Sc BZC I and II Year Students on 18/03/2021 went As a part of their curriculum. Students collected some snails and bivalves for preparation of specimens. The trip successfully inculcated in students the practicality of different theoretical concept of zoology.



*C. Kamalaj*  
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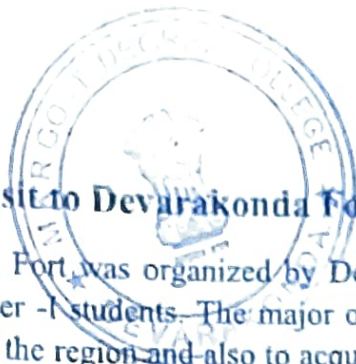
**MKR GOVERNMENT DEGREE COLLEGE ,DEVARAKONDA**

Date & Time: 18/03/2021  
 Name of the Activity: Field Trip  
 Title: Pond ecosystem  
 Conducted by: V. Bichuiah  
 Name of the Organisers: Dept of zoology  
 Venue of the Program: Devarakonda pond

SIGNATURE OF THE PRINCIPAL *Ch Ramakrishna*

S.NO	H.T.NO	Name of the Student	Signature of the student
1	20044026445029	RAMAVATH RAJESHWARI	R. Rajeshwari
2	20044026445030	SUNKOJU ANJALI	S. Anjali
3	20044026445031	TUMMA MAMATHA	Mamatha
4	20044026445032	VADTHYA ROJA	Roja
5	20044026445033	VADTHYA SARDAR	Sardar
6	20044026445034	VANKUDAVATH VALYA	Valya
7	19044026445001	A.LINGAIAH	Lingaiah
8	19044026445005	K.JYOTHI	Jyothi
9	19044026445011	P.NAVYA	Navya
10	19044026445017	V.NAVEEN	V. Naveen
11	19044026445019	K.SHIRISHA	K. Shirisha
12	19044026445007	M.PRAVEEN	M. Praveen
13	19044026445015	V.SANDEEP KUMAR	V. Sandeep Kumar
14	19044026445010	P.ROJA	P. Roja
15	19044026445016	V.SWAMY	Swamy

*Ch Ramakrishna*  
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## Field Visit to Devarakonda Fort on 14/08/2019

A field visit to Devarakonda Fort was organized by Department of Life Sciences as a part of Curriculum to all the Semester -I students. The major objective was to familiarize the students with the flora and ecology of the region and also to acquaint the students with the importance of hills and mountains and threats these ecosystems face due to natural and anthropogenic pressures.



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# MKR GOVERNMENT DEGREE COLLEGE

DEVARAKONDA (Dist. NALGONDA) - 508 248.

(Accredited with B\*\* Grade by NAAC)

## ACTIVITY REGISTER - 20 - 20

Name of the Activity	Environmental Studies - field Trip	Conducted by:	CH. Rama Raju
Date	14/8/2019	Name of the Resource Person	-
Venue	Devalakonda forest	Signature	chramaraju
	Principal		

Sl. No.	Signature of the Participant	Class	Sl. No.	Signature of the Participant	Class
1	A. pavan	BA-I	26	M. vishwamini	B.Z.C 1st year
2	Balramanthen	BA-I Year	27	M. Praveeni	B.Z.C 1st
3	S. Pramanthen	BA-I Year	28	M. Hanuman	B.EDM. 1st
4	Jisran	BA-I Year	29	N. Anurag	B.COM. 1st
5	Saidulu	BA-I year	30	B. Suresh	MPCS 1st
6	Prasad	BA-I year	31	D. Hanumanth	MPCS 1st
7	S. Kanth	BA-I year	32	S. Mahesh	MPCS 1st
8	S.N. Anusha	BA-I year	33	K. Su	MPCS 1st
9	R. Baburao	BA-I year	34	K. Jagan	MPCS 1st
10	R. Vala	BA-I year	35	A. M	MPCS 1st
11	A. Swathi	B.com 1st year	36	A. Madhu	BA 1st
12	R. Akshay Kumar	B.com 1st year	37	B. Nagesh	BA 1st
13	B. Uvakiolan	B.com 1st year	38	B. Ramachand	BA 1st
14	B. Shivakrishna	B.com 1st year	39	B. Seetha	BA 1st
15	A. Jithendhar	MPCS 1st year	40	C. Sandeep	BA 1st
16	A. Ajay Kumar	MPCS 1st year	41	C. Madhu	BA 1st
17	A. Jyothi	MPCS 1st year	42	D. Parvatham	BA 1st
18	A. premalatha	MPCS 1st year	43	G. Thirugothamma	BA 1st
19	A. Shilpa	MPCS 1st year	44	G. Rajitha	BA 1st
20	A. Anjali	MPCS 1st	45	G. Pragathi	BA 1st
21	A. Lingaiah	B.ZC 1st	46	G. Danaiah	BA 1st
22	B. Pavani	B.ZC 1st	47	G. Rafeesh	B.COM 1st
23	G. Venkatesh	B.ZC 1st	48	CH. Anusha	B.COM 1st
24	J. Anusha	B.ZC 1st	49	CH. Balakrishna	B.COM 1st
25	J. Jyothi	B.ZC 1st	50	CH. Anami	B.COM 1st

Sl. No.	Signature of the Participant	Class	Signature of the Participant	Class
51	D. Kishan	B.Com. Ist	M. Sridharsha	B.Sc MPCST
52	S. Pushpa	B.Sc (MPCST)	M. Shiva	MPCST
53	R. Rishithe	B.Sc (MPCST)	N. Shivan	MPCST
54	P. Lalay Sani	B.Sc (MPCST)	N. Anil	MPCST
55	P. Kondal	B.Sc (MPCST)	N. Prashanth	MPCST
56	P. Saikumar	B.Sc (MPCST)	L. Babylalu	BA-I
57	N. Srishya	B.Sc (MPCST)	K. Tharun	BA-I
58	N. Mounika	B.Sc (MPCST)	M. Ganesh	BA-I
59	N. Anil	B.Sc (MPCST)	Saikumar	BA-I
60	M. Katesh	B.Sc (BZC) Ist	M. Nandini	BA-I
61	N. Manamohan	B.Sc (BZC) Ist	M. Santhosh	BA-I
62	P. Raja	B.Sc (BZC) Ist	N. Anusha	BA-I
63	P. Nanya	B.Sc (BZC) Ist	Anil	BA-I
64	P. Yadagiri	B.Sc (BZC) Ist	M. Suresh	BA-I
65	T. Vamsi	B.Sc (BZC) Ist	M. Vidya Sagar	BA-I
66	V. Sandeep	B.Sc (BZC) Ist	N. Naveen	BA-I
67	V. Swamy	BZC (RUV)	N. Sathish	BA-I
68	V. Naveen	BZC (RUV)	Girish	BA-I
69	Chandrababu	BZC (RUV)	Mahar	BA-I
70	J. Rajesh	BAEN	Hanuman	BA-I
71	J. Suresh	BAEN	Anil	BA-I
72	K. Anil	BA-I	Purva	BA-I
73	P. Anil	BA-I	Sarika	BA-I
74	K. Poethi	BA-I	Rajtha	BA-I
75	Gopi	BA-I	Madhu	BA-I
76	E. Srinath	B.Com	S. S	BA-I
77	K. Anusha	BA-I	Ranj	BA-I
78	K. Ramesh	BA-I	Vansh	BA-I
79	G. Kalyan	B.Com	Mahesh	BA-I
80	J. Nagasaju	B.Com	Lokesh	BA-I
81	J. Ganesh	B.Com-I	Madhamohan	BA-I
82	K. Srishalam	B.Com-I	S. S	BA-I
83	K. Yadagiri	M.P.C.S. I	Shankar	BA-I
84	K. Naresh	M.P.C.S. I	Anny	BA-I
85	K. Parasuram	M.P.C.S. I	Kittu	B.Com-I
86	K. Bhargavi	M.P.C.S. I	Mounika	B.Com

Class  
MPC-I

Sl. No.	Signature of the Participant	Class	Sl. No.	Signature of the Participant	Class
123	Imran pasha	B.com-I	160		
124	N. Harish	B.A-I	161		
125	P. Sribharth	B.com-I	162		
126	K. Kuman	MPC-I	163		
127	Lakshmi	MPC-I	164		
128			165		
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Attested  
Chikamahalakshmi  
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