



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Shri Amolak Jain Vidya Prasarak Mandal's
Smt. S. K. Gandhi Arts, Amolak Science &
P. H. Gandhi Commerce College, Kada
Ashti, Dist. Beed,
affiliated to Dr. Babasaheb Ambedkar Marathwada University, Maharashtra as
Accredited
with CGPA of 2.29 on four point scale
at B grade
valid up to February 20, 2019*

Date : February 21, 2014



*Anamika
Director*



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

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Quality Profile

Name of the Institution : Shri Amolak Jain Vidya Prasarak Mandal's

Smt. S. K. Gandhi Arts, Amolak Science & P. H. Gandhi Commerce College, Kad

Place : Ashti, Dist. Beed, Maharashtra

Criteria	Weightage (W_i)	Criterion-wise Weighted Grade Point (CrWGP _i)	Criterion-wise Grade Point Averages (CrWGP _i / W_i)
I. Curricular Aspects	100	220	2.20
II. Teaching-Learning and Evaluation	350	880	2.51
III. Research, Consultancy and Extension	150	270	1.80
IV. Infrastructure and Learning Resources	100	250	2.50
V. Student Support and Progression	100	200	2.00
VI. Governance, Leadership & Management	100	270	2.70
VII. Innovations and Best Practices	100	200	2.00
Total	$\sum_{i=1}^7 w_i = 1000$	$\sum_{i=1}^7 (CrWGP_i) = 2290$	

$$\text{Institutional CGPA} = \frac{\sum_{i=1}^7 (CrWGP_i)}{\sum_{i=1}^7 W_i} = \frac{2290}{1000} = \boxed{2.29}$$

Grade = **B**

Descriptor = **GOOD**



Date : February 21, 2014

Anamika
Director

- This certification is valid for a period of Five years with effect from February 21, 2014
- An institutional CGPA on four point scale in the range of 3.01 - 4.00 denotes A grade (Very Good), 2.01 - 3.00 denotes B grade (Good), 1.51 - 2.00 denotes C grade (Satisfactory)
- Scores rounded off to the nearest integer

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD - 431 004

Department of Environmental Science

NAAC – Accredited “A” Grade



Dr. Satish S. Patil
Professor

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E-mail – sushshrey@redifmail.com
sushshrey@gmail.com.

=====
Date:

ENVIRONMENTAL AUDIT

QUESTIONARIES

Name of College: - Smt. S.K. Gandhi Arts, Amlok Science and P. H. Gandhi Commerce
College, Kada, Taluka Ashti, District Beed. (M.S.).

Addresses: - Nagar- Jamkhed Road, Kada, District Beed.
Mobile No:- 8793507925, 8668947965.

Email.ID:- gandhicollegekada_1996@yahoo.co.in

Name of coordinator: - Dr. N. S. Rathi and Gawali N. T.

Mobile No: - 8793507925, 8668947965.

Date commenced:- 15/06/2019

Date completed:- 30/09/2019

Put mark in appropriate box


What is the total strength of student and teachers in your College? (Approx)

No. of Student No of Teacher

Sr no		Students	Teaching Staff	Non-Teaching Staff	Peons	Security
1	UG	830	42	20	3	2
2	PG	126	9			
Total		956	51	20	3	2

Which of the following are available in your college?

- 1) Garden area with Lawn 5826.5 m²
- 2) Play Ground 4752 m²
- 3) Pantry 1
- 4) Toilets (number) Male 3 No's Females 3 No's
- 5) Garbage dumps (number) 2 No's
- 6) Laboratory CHE-3, BOT-2, ZOO-1, PHY-1, GEO-1, COMP-1, BCA-1.
- 7) Canteen 1
- 8) Other (specify)
 - Rain water harvesting
 - Underground water tank
 - Workshop
 - Septic Tank


Dr. Satish S. Patil
Professor
Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad-431004 (M.S.)

Which of the following are found near your College?

Mark the level of disturbance it create for the College in a scale of 1 to 9

1) Municipal dump yard	04
2) Garbage head	01
3) Public convenience	01
4) Sewer line	02
5) Stagnant water	03
6) Open drainage (River)	01
7) Industry - (Sugar Industry)	00
8) Bus / Railway Station	01
9) Market / Shopping complex / Public halls	03



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Department of Environmental Science
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I - WASTE

1) Does your College generate any waste?

If so, what are they?

Yes

Bio Degradable: Shuck, Food, Paper, sawdust

Non Degradable: Plastic, E-Waste, metal

2) What is the approximate amount of waste generated per day?

(In Kilograms) (Approx.)

Approx.	Bio degradable	Non-Bio degradable	Hazardous	Others
< 1 kg.	Paper, sawdust	Plastic Paper	Chemicals	Nil
2- 10 kg.	Food, Human Excreta	E-Waste	Nil	Nil
>10 kg.	Nil	Nil	Nil	Nil

3) How is the waste generated in the College managed? By

Yes No

How

1) Composting

2) Recycling

3) Reusing

4) Hazardous Materials

Composting Machine

Gives to recycle (Plastic)

Paper printout on both sides

Dilution (Chemicals)

4) How many separate boxes do you think you would need to put a class room laboratory to start a waste segregation and recycling Campaign.

(Bio-degradable, Non-bio- Degradable, *E-Waste and *Metal)

Dr. Satish S. Patil
Professor

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Dr. Babasaheb Ambedkar Marathwada
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5) Do you use recycled paper in College? Yes No

6) How would you spread the message of recycling to other in the community?

- a) By spreading message, ecological advantages of recycling things, to them via lectures/seminars
- b) By comparing the cost of recycled material with fresh material.
- c) Displaying notices on notice board and frequently accessed areas.


7) Have you taken any initiatives? If yes, please specify Yes No

Street Plays and Awareness campaigning' swere arranged for spreading message of recycling of waste. A survey was carried out by Department of Chemistry and Botany, and necessary guidelines and messages were circulated in college in 2019.

8) Can you achieve zero garbage in your College? If yes, how?

Yes No

- I. Choose long-lasting instead of disposable items.
- II. Choose products with minimal/recyclable packaging.
- III. Buy in bulk to reduce the amount of packaging.
- IV. Mend broken items when possible.



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University, Aurangabad.-431004 (M.S.)

II – GREENING THE CAMPUS

- 1) Is there a garden in your College Yes No
- 2) Do student spend time in the garden? Yes No
- 3) List the plants with approx. numbers of each species.

Numbers of plants in campus is approx.285

List the species with numbers.

Name	No's	Name	No's	Name	No's
Plumier	02	Almond	06	Bamboo	02
Hibiscus	21	Java Plum	07	Cascabelathevetia	8
Pin Wheel Flower	16	Coconut	03	Neem	24
Tacoma	22	Tamarind	06	Banyan	05
Rose	05	Bottle Plant	11	Lemon	02
Guava	20	Custard Apple	05	Drum Stick	06
Mango	12	Christmas	01	Asoka	16
Meliacea	18	Bauhinia variegata	50	Teak wood	04
Babul	20	Peepal	03	Bel	01
Cactus	01	Umber	07	Gulmohar	05



Dr. Satish S. Patil
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Department of Environmental Science
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University, Aurangabad.-431004 (M.S.)

III – ENERGY

1) **List ten ways that you use energy in your College.**

Electricity in every room/class/hall/cabin/lobby

-Diesel in Generator

- LPG in canteen

2) **Using above list, try to think of ways that you could use less energy every day.**

Sr. No	Energy	Reduction of usage	Means
1	Electricity	50 %	Awareness sign boards near electricity switches
2	Generator	85 %	Usage in only emergency's
3	LPG	25 %	LPG Gas usage awareness to employees
4	Solar	-	Nil

3) **Are there energy saving methods employed in your College? Yes No**

If yes, please specify.

- LED, CFL

4) **How much money does your College spend on energy such as electricity, gas, firewood, etc. in a month? Record it.**

Sr no	Item	Quantity/ Reading (Per month, Averagely)	Unit Rate	Total Price
1	Electricity	2551 KWH	12.86 (including Taxes)	59590/-
2	LPG	19.5Kg * 8 units	1450/-	11600/-
3	Diesel (Generator)	28 Liters	75/-	2100/-
Total in Rs.				73,290/-

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Professor

Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad - 431004 (M.S.)

5) How many CFL, LED bulbs has your College installed?

- a) CFL - 174 b) LED- 127

6) Any alternative energy sources employed / installed in your College? Yes, No

7) Do you run "switch off" drills at College? Yes No

8) Are your computers and other equipment's are been put on a power saving mode?

Yes No

9) Does your machinery (TV, AC, Computer, weighing balance, Printers, etc.) Run on standby modes most of the time? Yes No

If yes, how many hours in a day?

- Averagely 2 to 3 hours per day



Dr. Satish S. Patil
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IV – WATER CONSERVATION

1) List four uses of water in your College

- 1) Drinking
- 2) Washrooms
- 3) Gardening/ Washing
- 4) Laboratories

2) How does your College store water? Are there any water saving techniques followed in your College? Yes No

If yes, what are they?

- College having underground and overhead water tanks with cover.

3) Is there any water wastage in college? Yes No

How do you prevent / stop wastage of water?

- It is prevented by using push back taps and flushes.
- Wastage from the RO filters is collected in open tank and used for garden.

4) Locate the point of entry of water and point of exit of waste Water in your College.

Entry: Bore well/Well

Exit: Septic Tank

5) Where does your water come from? (Source)

Water comes from Bore well and Well in the campus.

6) Where does the waste water go?

All wastewater is collected through underground sewers and disposed to septic tank.

7) Write down four ways that could reduce the amount of water used in your Institute.

- 1) By using push cock system
- 2) Avoid evaporation of water
- 3) Provided glass for drinking purpose
- 4) By making awareness in students to save the water
- 5) Water saving quotes is stick in W/C and near drinking units.



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8) Record water use from the college water meter for six months (Record at the same time of each day). At the end of the period, compile a table to show how many liters of water have been used.

S. K. Gandhi College Campus don't have Water connection as it has its own sources.

Standard Water consumption table.

Sr. no	Description	Quantity in Liters
1	Drinking	5
2	Washing/Cleaning	10
3	Laboratory	9
4	Water closet	25


Following is approximate water consumption per day.

Sr. no	Water for toilet (Ltr)	Water for drinking (Ltr)	Water for washing/cleaning (Ltr)	Water for laboratory (Ltr)	Water for Gardening (Ltr)
1	17922	3288	7072	3288	1000
Total					31570

9) Does your Institution harvest rain water? Yes No

If yes, how rain water harvesting is carried out?

A block contour survey of S. K. Gandhi College Campus was carried out, to determine slope of ground. Thus a well and bore well was constructed according to the topography. Water is naturally drawn towards slope under the action of gravity. Thus it is trapped and collected in water tanks by means of pump.


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V -ANIMAL WELFARE

1) List the animals (wild and domestic) found on the campus

(Dogs, cats, squirrels, birds, insects, etc.)

Dogs - 05

Squirrels - 60

Reptiles - 1

Birds of various species – Sparrow, Parrot, Kingfisher, Woodpecker, Crow.

Reptiles- Lizards, Snakes.

2) How many dogs in your area have undergone Animal Birth?

Control anti Rabis (ABC – AR)?

Yes No

3) Is there animal welfare organization nearest to your college? Yes No

• Does it have an ambulance service? Yes No

4) Is there any incidence of animals getting wounded / affected due to unfavorable conditions existing in your College or nearby (like a dog getting wounded, poisoning of animals, improper caging of animals, hunting of animals, etc?) Yes

No

5) What did you / your College / neighbor do?

At some location in campus a fountain like structure is constructed from which birds drink water. Small wooden boxes are placed on some of the trees in which birds take shelter.



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VI – GENERAL

1) Are you aware of any environment Laws pertaining to different aspects of environmental management? Yes No

2) Does your college have any rules to protect the environment? List possible rules you could include. Yes No

a) In S. K. Gandhi College Campus, waste management system is implemented and people in campus are made aware regarding the same. Such as use of separate dustbins, stick bills of clean campus and Swacch Bharat, etc.

b) Under NSS, tree plantation activity is mandatory to carry out every year.

c) All students shall plant at least 50 saplings per year.



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Action Plan

- * Conveniently colored trash bins areco-locate to improve convenience and reduce cross-contamination.[Green: Biodegradable; Blue: Plastic/Metal; Black: E-waste]
- * Composter is installed in campus for bio-degradable waste.
- * To take the Solar energy power generation Initiative to the next level.
- * Paper waste is sold for recycling to waste paper collector.
- * E-waste is collected and sold to electronics shop.



Dr. S.S. Patil

Dr. Satish S. Patil
Professor

Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad, -431004 (M.S.)

**Department of
Environmental Science,**

**Dr. B. A. M. University,
Aurangabad.**



Principal
S.A.J.V.P.M.Kada's
Smt.S.K.Gandhi Arts, Amolok Science
P.H.Gandhi Commerce Collegs, Kada

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD - 431 004

Department of Environmental Science

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Professor & Head

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E-mail – sushshrey@redifmail.com
sushshrey@gmail.com.

=====
Date: 05/10/2019

CERTIFICATE

This is to certify that the Green Audit inclusive of energy audit, green initiatives and waste management has been conducted for the institute Smt. S. K. Gandhi Arts, Amolak Science and P. H. Gandhi Commerce College, Kaka, Tal. Ashti. Dist. Beed, During 15 June 2019 to 30 th Sept 2019.

The detailed report is forwarded to the college.

Dr. S. S. Patil

Professor

Department of
Environmental Science, Dr.

B. A. M. University,

Aurangabad.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

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sushshrey@gmail.com.

Date:

ENVIRONMENTAL AUDIT

QUESTIONARIES

Name of College: - Smt. S.K. Gandhi Arts, Amlok Science and P. H. Gandhi Commerce
College, Kada, Taluka Ashti, District Beed. (M.S.).

Addresses: - Nagar- Jamkhed Road, Kada, District Beed.
Mobile No:- 8793507925, 8668947965.

Email.ID:- gandhicollegekada_1996@yahoo.co.in

Name of coordinator: - Dr. N. S. Rathi and Gawali N. T.

Mobile No: - 8793507925, 8668947965.

Date commenced:- 1/07/2020

Date completed:- 27/10/2020

Put mark in appropriate box

What is the total strength of student and teachers in your College? (Approx)

No. of Student No of Teacher

Sr no		Students	Teaching Staff	Non-Teaching Staff	Peons	Security
1	UG	928	42	20	3	2
2	PG	118	9			
		1046	51	20	3	2

Which of the following are available in your college?

- 1) Garden area with Lawn 5826.5 m²
- 2) Play Ground 4752 m²
- 3) Pantry 1
- 4) Toilets (number) Male 3 No's Females 3 No's
- 5) Garbage dumps (number) 2 No's
- 6) Laboratory CHE-3, BOT-2, ZOO-1, PHY-1, GEO-1, COMP-1, BCA-1.
- 7) Canteen 1
- 8) Other (specify)
 - Rain water harvesting
 - Underground water tank
 - Workshop
 - Septic Tank



Dr. Satish S. Patil
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University, Aurangabad.-431004 (M.S.)

Which of the following are found near your College?

Mark the level of disturbance it create for the College in a scale of 1 to 9

1) Municipal dump yard	04
2) Garbage head	01
3) Public convenience	01
4) Sewer line	02
5) Stagnant water	03
6) Open drainage (River)	01
7) Industry - (Sugar Industry)	00
8) Bus / Railway Station	01
9) Market / Shopping complex / Public halls	03



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I – WASTE

1) Does your College generate any waste?

If so, what are they?

Yes

Bio Degradable: Shuck, Food, Paper, sawdust

Non Degradable: Plastic, E-Waste, metal

2) What is the approximate amount of waste generated per day?

(In Kilograms) (Approx.)

Approx.	Bio degradable	Non-Bio degradable	Hazardous	Others
< 1 kg.	Paper, sawdust	Plastic Paper	Chemicals	Nil
2- 10 kg.	Food, Human Excreta	E-Waste	Nil	Nil
>10 kg.	Nil	Nil	Nil	Nil

3) How is the waste generated in the College managed? By

Yes No

How

- 1) Composting
- 2) Recycling
- 3) Reusing
- 4) Hazardous Materials

Composting Machine

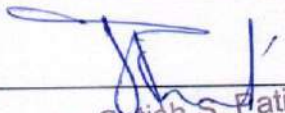
Gives to recycle (Plastic)

Paper printout on both sides

Dilution (Chemicals)

4) How many separate boxes do you think you would need to put a class room laboratory to start a waste segregation and recycling Campaign.

(Bio-degradable, Non-bio- Degradable, *E-Waste and *Metal)


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5) Do you use recycled paper in College? Yes No

6) How would you spread the message of recycling to other in the community?

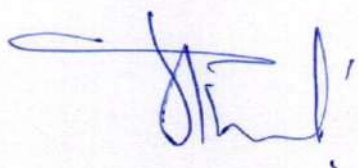
- a) By spreading message, ecological advantages of recycling things, to them via Online lectures/seminars
- b) By comparing the cost of recycled material with fresh material.
- c) Displaying notices on notice board and frequently accessed areas.

7) Have you taken any initiatives? If yes, please specify Yes No

Street Plays and Awareness campaigning' swere arranged for spreading message of recycling of waste. A survey was carried out by Department of Chemistry and Botany, and necessary guidelines and messages were circulated in college in 2020.

8) Can you achieve zero garbage in your College? If yes, how?
Yes No

- I. Choose long-lasting instead of disposable items.
- II. Choose products with minimal/recyclable packaging.
- III. Buy in bulk to reduce the amount of packaging.
- IV. Mend broken items when possible.



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II - GREENING THE CAMPUS

- 1) Is there a garden in your College Yes No
- 2) Do student spend time in the garden? Yes No
- 3) List the plants with approx. numbers of each species.
Numbers of plants in campus is approx. 285

List the species with numbers.

Name	No's	Name	No's	Name	No's
Plumier	02	Almond	06	Bamboo	02
Hibiscus	20	Java Plum	07	Cascabelathevetia	8
Pin Wheel Flower	16	Coconut	03	Neem	22
Tacoma	22	Tamarind	06	Banyan	05
Rose	05	Bottle Plant	8	Lemon	02
Guava	20	Custard Apple	04	Drum Stick	06
Mango	12	Christmas	01	Asoka	16
Meliaceia	16	Bauhinia variegata	50	Teak wood	03
Babul	18	Peepal	03	Bel	01
Cactus	01	Umber	07	Gulmohar	05



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III – ENERGY

1) **List ten ways that you use energy in your College.**

Electricity in every room/class/hall/cabin/lobby

-Diesel in Generator

- LPG in canteen

2) Using above list, try to think of ways that you could use less energy every day.

Sr. No	Energy	Reduction of usage	Means
1	Electricity	50 %	Awareness sign boards near electricity switches
2	Generator	85 %	Usage in only emergency's
3	LPG	25 %	LPG Gas usage awareness to employees
4	Solar	-	Nil

3) Are there energy saving methods employed in your College? Yes No

If yes, please specify.

- LED, CFL

4) How much money does your College spend on energy such as electricity, gas, firewood, etc. in a month? Record it.

Sr no	Item	Quantity/ Reading (Per month, Averagely)	Unit Rate	Total Price
1	Electricity	2551 KWH	12.86 (including Taxes)	15200/-
2	LPG	19.5Kg * 8 units	1680/-	13400/-
3	Diesel (Generator)	20 Liters	81/-	1620/-
Total in Rs.				30,220/-



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Professor

Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad-431004 (M.S.)

5) How many CFL, LED bulbs has your College installed?

- a) CFL - 184 b) LED- 144

6) Any alternative energy sources employed / installed in your College? Yes, No

7) Do you run "switch off" drills at College? Yes No

8) Are your computers and other equipment's are been put on a power saving mode?

Yes No

9) Does your machinery (TV, AC, Computer, weighing balance, Printers, etc.) Run on standby modes most of the time? Yes No

If yes, how many hours in a day?

- Averagely 2 to 3 hours per day



Dr. Satish S. Patil
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IV – WATER CONSERVATION

1) List four uses of water in your College

- 1) Drinking
- 2) Washrooms
- 3) Gardening/ Washing
- 4) Laboratories

2) How does your College store water? Are there any water saving techniques followed in your College? Yes No

If yes, what are they?

- College having underground and overhead water tanks with cover.

3) Is there any water wastage in college? Yes No

How do you prevent / stop wastage of water?

- It is prevented by using push back taps and flushes.
- Wastage from the RO filters is collected in open tank and used for garden.

4) Locate the point of entry of water and point of exit of waste Water in your College.

Entry: Bore well/Well

Exit: Septic Tank

5) Where does your water come from? (Source)

Water comes from Bore well and Well in the campus.

6) Where does the waste water go?

All wastewater is collected through underground sewers and disposed to septic tank.

7) Write down four ways that could reduce the amount of water used in your Institute.

- 1) By using push cock system
- 2) Avoid evaporation of water
- 3) Provided glass for drinking purpose
- 4) By making awareness in students to save the water
- 5) Water saving quotes is stick in W/C and near drinking units.



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8) Record water use from the college water meter for six months (Record at the same time of each day). At the end of the period, compile a table to show how many liters of water have been used.

S. K. Gandhi College Campus don't have Water connection as it has its own sources.

Standard Water consumption table.

Sr. no	Description	Quantity in Liters
1	Drinking	5
2	Washing/Cleaning	10
3	Laboratory	9
4	Water closet	25

Following is approximate water consumption per day.

Sr. no	Water for toilet (Ltr)	Water for drinking (Ltr)	Water for washing/cleaning (Ltr)	Water for laboratory (Ltr)	Water for Gardening (Ltr)
1	16955	3189	7008	3155	1000
Total					30307

9) Does your Institution harvest rain water? Yes No

If yes, how rain water harvesting is carried out?

A block contour survey of S. K. Gandhi College Campus was carried out, to determine slope of ground. Thus a well and bore well was constructed according to the topography. Water is naturally drawn towards slope under the action of gravity. Thus it is trapped and collected in water tanks by means of pump.



Dr. Satish S. Patil
Professor

Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad.-431004 (M.S.)

V -ANIMAL WELFARE

1) List the animals (wild and domestic) found on the campus

(Dogs, cats, squirrels, birds, insects, etc.)

Dogs - 02

Squirrels - 55

Reptiles - 1

Birds of various species – Sparrow, Parrot, Kingfisher, Woodpecker, Crow.

Reptiles- Lizards, Snakes.

2) How many dogs in your area have undergone Animal Birth?

Control anti Rabis (ABC – AR)?

Yes No

3) Is there animal welfare organization nearest to your college? Yes No

• Does it have an ambulance service? Yes No

4) Is there any incidence of animals getting wounded / affected due to unfavorable conditions existing in your College or nearby (like a dog getting wounded, poisoning of animals, improper caging of animals, hunting of animals, etc?) Yes

No

5) What did you / your College / neighbor do?

At some location in campus a fountain like structure is constructed from which birds drink water. Small wooden boxes are placed on some of the trees in which birds take shelter.

Dr. Satish S. Patil
Professor

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Dr. Babasaheb Ambedkar Marathwada
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VI – GENERAL

1) Are you aware of any environment Laws pertaining to different aspects of environmental management? Yes No

2) Does your college have any rules to protect the environment? List possible rules you could include. Yes No

a) In S. K. Gandhi College Campus, waste management system is implemented and people in campus are made aware regarding the same. Such as use of separate dustbins, stick bills of clean campus and Swacch Bharat, etc.

b) Under NSS, tree plantation activity is mandatory to carry out every year.

c) All students shall plant at least 25 saplings per year.



Dr. Satish S. Patil
Professor

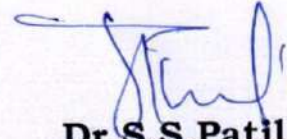
Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad.-431004 (M.S.)

Action Plan

- * Conveniently colored trash bins areco-locate to improve convenience and reduce cross-contamination.[Green: Biodegradable; Blue: Plastic/Metal; Black: E-waste]
- * Composter is installed in campus for bio-degradable waste.
- * Paper waste is sold for recycling to waste paper collector.
- * E-waste is collected and sold to electronics shop.
- * To take the Solar energy power generation Initiative to the next level.



Principal
S.A.J.V.P.M.Kada's
Smt.S.K.Gandhi Arts, Amolok Science
P.H.Gandhi Commerce College, Kada



Dr. S.S. Patil

Dr. Satish S. Patil
Professor

Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad-431004 (M.S.)
Department of
Environmental Science,

Dr. B. A. M. University,
Aurangabad.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD - 431 004

Department of Environmental Science

NAAC – Accredited “A” Grade



Dr. Satish S. Patil
Professor & Head

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Mobile:-9422707261 * 2358176

E-mail – sushshrey@redifmail.com
sushshrey@gmail.com.

=====
Date: 07-11-2020.

CERTIFICATE

This is to certify that the Green Audit inclusive of energy audit, green initiatives and waste management has been conducted for the institute Smt. S. K. Gandhi Arts, Amolak Science and P. H. Gandhi Commerce College, Kaka, Tal. Ashti. Dist. Beed, During 1 st July 2020 to 27 th Oct 2020.

The detailed report is forwarded to the college.

Dr. S. S. Patil

Professor
Department of
Environmental Science, Dr.
B. A. M. University,
Aurangabad.

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=====
Date:

ENVIRONMENTAL AUDIT

QUESTIONARIES

Name of College: - Smt. S.K. Gandhi Arts, Amlok Science and P. H. Gandhi Commerce
College, Kada, Taluka Ashti, District Beed. (M.S.).

Addresses: - Nagar- Jamkhed Road, Kada, District Beed.
Mobile No:- 8793507925, 8668947965.

Email.ID:- gandhicollegekada_1996@yahoo.co.in

Name of coordinator: - Dr. N. S. Rathi and Gawali N. T.

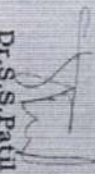
Mobile No: - 8793507925, 8668947965.

Date commenced:- 1/08/2021

Date completed:- 27/11/2021

Action Plan

- Conveniently colored trash bins are to locate to improve convenience and reduce cross contamination. (Green: Biodegradable; Blue: Plastic; Metal; Black: E-waste)
- E-waste is collected and sold to electronics shop.
- To take the Solar energy power generation Initiative to the next level.
- Paper waste is sold for recycling to waste paper collector.
- Composter is installed in campus for bio-degradable waste.


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Professor

Department of
Environmental Science

Dr. B. A. M. University,

Aurangabad.



श्री अमोलक जैन विद्या प्रसारक मंडळ कडाच्या दिनांक २२/१०/२०२२ रोजी झालेल्या कार्यवर्करी मंडळाच्या निर्देशांनुसार उराव नं ५/२ ची नक्कल.

विषय नं.

- कॉलेज ऑफ फार्मास्यूटिकल सायन्स अँड रिसर्च इन्स्टिट्यूट कॉलेजचे प्रयोग

साहित्य व रसायने गांधी महाविद्यालयासाठी वापरण्याबाबत .

उराव नं.

- श्री अमोलक जैन विद्या प्रसारक मंडळ कडा संचालित कॉलेज ऑफ फार्मास्यूटिकल

सायन्स अँड रिसर्च इन्स्टिट्यूट कॉलेजचे प्रयोगासाठी सर्व प्रकारचे प्रयोग साहित्य

व रसायने श्रीमती शां. कां. गांधी कला, अमोलक विज्ञान व प. हि. गांधी वाणिज्य

महाविद्यालय कडा या महाविद्यालयाच्या विद्यार्थ्यांच्या प्रयोगासाठी वापरण्यात यावे असे

संबन्धित ठरले.

सूचक :- डॉ. उमेशकुमार अशोकलालजी गांधी

अनुमोदक :- डॉ. महेंद्रकुमार शोकाकलालजी पटवर्ण

// खी नक्कल //

Prathamanti / Secretary
Shri Amolak Jain Vidya Prasarak
Mandal Kada, Tal. Ashti (Beed)



Estid. 1996

Shri Amolak Jain Vidya Prasarak Mandal's

**Smt. S.K.Gandhi Arts, Amolak Science and P.H.Gandhi Commerce
College, Kada Tal-Ashti, Dist-Beed (M.S.) 414202**

A Jain Minority Institution

E-Mail – gandhicollegekada_1996@yahoo.co.in

☎ 02441-239378

Affiliated to Dr.B.A.Marathwada University, Aurangabad

Principal
Dr. N.S. Rathi

(M.Com., Ph.D.)

Ref. :

Date : / /

To,

The Deputy Registrar,

Planning and Stat,

Dr. Babasahab Ambedkar Marathwada University,

Aurangabad.

Subject: Submission of Final Report of Minor Research Project with Bill Settlement.

Ref: Letter No. STAT/VR.G //2017-18/3051-52 dated 07/02/2018.

Sir,

Please find enclosed herewith **Dr. Jadhav S.S.**, submitting Final Report of Minor Research Project in **ZOOLOGY**, entitled **"Effect of Cypermethrin on Toxicity, Histopathology, Bioaccumulation and Dehydrogenase Enzymes of Fresh water fish Cirrhinus mrigala from Sina Reservoir"** You are therefore kindly request to accept the same which is duly completed in all respects.

I am therefore request you to settle the bill amount of Rs. 12500/- (Rs. Twelve Thousand Five Hundred Only) against advance.

Thanking you.

Yours faithfully

(**Dr. N.S. Rathi**)

Encls:

- 1) Hard copies of the Minor Research Project (Two Copies)
- 2) Original Bill Receipt.

I - WASTE

1) Does your College generate any waste?

If so, what are they?

Yes

Bio Degradable: Shuck, Food, Paper, sawdust

Non Degradable: Plastic, E-Waste, metal

2) What is the approximate amount of waste generated per day?

(In Kilograms) (Approx.)

Approx.	Bio degradable	Non-Bio degradable	Hazardous	Others
< 1 kg.	Paper, sawdust	Plastic Paper	Chemicals	Nil
2- 10 kg.	Food, Human Excreta	E-Waste	Nil	Nil
>10 kg.	Nil	Nil	Nil	Nil

3) How is the waste generated in the College managed? By

Yes No


How

- 1) Composting
- 2) Recycling
- 3) Reusing
- 4) Hazardous Materials

Composting Machine
Gives to recycle (Plastic)
Paper printout on both sides
Dilution (Chemicals)

4) How many separate boxes do you think you would need to put a class room laboratory to start a waste segregation and recycling Campaign.

(Bio-degradable, Non-bio- Degradable, *E-Waste and *Metal)


Dr. Satish S. Patil
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VI – GENERAL

1) Are you aware of any environment Laws pertaining to different aspects of environmental management? Yes No

2) Does your college have any rules to protect the environment? List possible rules you could include. Yes No

a) In S. K. Gandhi College Campus, waste management system is implemented and people in campus are made aware regarding the same. Such as use of separate dustbins, stick bills of clean campus and Swacch Bharat, etc.

b) Under NSS, tree plantation activity is mandatory to carry out every year.

c) All students shall plant at least 20 saplings per year.



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5) Do you use recycled paper in College? Yes No

6) How would you spread the message of recycling to other in the community?

- a) By spreading message, ecological advantages of recycling things, to them via Online lectures/seminars
- b) By comparing the cost of recycled material with fresh material.
- c) Displaying notices on notice board and frequently accessed areas.

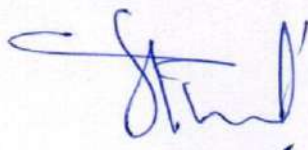
7) Have you taken any initiatives? If yes, please specify Yes No

Street Plays and Awareness campaigning' swere arranged for spreading message of recycling of waste. A survey was carried out by Department of Chemistry and Botany, and necessary guidelines and messages were circulated in college in 2021.

8) Can you achieve zero garbage in your College? If yes, how?

Yes No

- I. Choose long-lasting instead of disposable items.
- II. Choose products with minimal/recyclable packaging.
- III. Buy in bulk to reduce the amount of packaging.
- IV. Mend broken items when possible.



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Which of the following are found near your College?

Mark the level of disturbance it create for the Collegein a scale of 1 to 9

1) Municipal dump yard	04
2) Garbage head	01
3) Public convenience	01
4) Sewer line	02
5) Stagnant water	03
6) Open drainage (River)	01
7) Industry - (Sugar Industry)	00
8) Bus / Railway Station	01
9) Market / Shopping complex / Public halls	03



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IV – WATER CONSERVATION

1) List four uses of water in your College

- 1) Drinking
- 2) Washrooms
- 4) Laboratories
- 3) Gardening/ Washing

2) How does your College store water? Are there any water saving techniques followed in your College? Yes No

If yes, what are they?

- College having underground and overhead water tanks with cover.

3) Is there any water wastage in college? Yes No

How do you prevent / stop wastage of water?

- It is prevented by using push back taps and flushes.
- Wastage from the RO filters is collected in open tank and used for garden.

4) Locate the point of entry of water and point of exit of waste Water in your College.

Entry: Bore well/Well

Exit: Septic Tank

5) Where does your water come from? (Source)


Water comes from Bore well and Well in the campus.

6) Where does the waste water go?

All wastewater is collected through underground sewers and disposed to septic tank.

7) Write down four ways that could reduce the amount of water used in your Institute.

- 1) By using push cock system
- 2) Avoid evaporation of water
- 3) Provided glass for drinking purpose
- 4) By making awareness in students to save the water
- 5) Water saving quotes is stick in W/C and near drinking units.



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V-ANIMAL WELFARE

1) List the animals (wild and domestic) found on the campus

(Dogs, cats, squirrels, birds, insects, etc.)

Dogs - 02

Squirrels - 58

Reptiles - 1

Birds of various species - Sparrow, Parrot, Kingfisher, Woodpecker, Crow.

Reptiles- Lizards, Snakes.

2) How many dogs in your area have undergone Animal Birth?

Control anti Rabis (ABC - AR)?

Yes No

3) Is there animal welfare organization nearest to your college? Yes No

• Does it have an ambulance service? Yes No

4) Is there any incidence of animals getting wounded / affected due to unfavorable conditions existing in your College on nearby (like a dog getting wounded, poisoning of animals, improper caging of animals, hunting of animals, etc?) Yes No

5) What did you / your College / neighbor do?

At some location in campus a fountain like structure is constructed from which birds drink water. Small wooden boxes are placed on some of the trees in which birds take shelter.



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III – ENERGY

1) **List ten ways that you use energy in your College.**

Electricity in every room/class/hall/cabin/lobby

- Diesel in Generator

- LPG in canteen

2) **Using above list, try to think of ways that you could use less energy every day.**

Sr. No	Energy	Reduction of usage	Means
1	Electricity	50 %	Awareness sign boards near electricity switches
2	Generator	85 %	Usage in only emergency's
3	LPG	25 %	LPG Gas usage awareness to employees
4	Solar	-	Nil

3) **Are there energy saving methods employed in your College? Yes No**

If yes, please specify.

- LED, CFL

4) **How much money does your College spend on energy such as electricity, gas, firewood, etc. in a month? Record it.**

Sr no	Item	Quantity/ Reading (Per month, Averagely)	Unit Rate	Total Price
1	Electricity	2257 KWH	13.63 (including Taxes)	30770/-
2	LPG	19.5Kg * 2 units	1710/-	3420/-
3	Diesel (Generator)	10 Liters	84/-	840/-
Total in Rs.				35,030/-


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8) Record water use from the college water meter for six months (Record at the same time of each day). At the end of the period, compile a table to show how many liters of water have been used.

S. K. Gandhi College Campus don't have Water connection as it has its own sources.

Standard Water consumption table.

Sr. no	Description	Quantity in Liters
1	Drinking	5
2	Washing/Cleaning	10
3	Laboratory	9
4	Water closet	25

Following is approximate water consumption per day.

Sr. no	Water for toilet (Ltr)	Water for drinking (Ltr)	Water for washing/cleanin g (Ltr)	Water for laboratory (Ltr)	Water for Gardening (Ltr)	Total
1	12800	1180	5545	2101	1000	22,626

9) Does your Institution harvest rain water? Yes No

If yes, how rain water harvesting is carried out?

A block contour survey of S. K. Gandhi College Campus was carried out, to determine slope of ground. Thus a well and bore well was constructed according to the topography. Water is naturally drawn towards slope under the action of gravity. Thus it is trapped and collected in water tanks by means of pump.

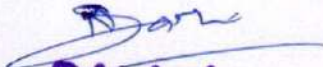


Dr. Satish S. Patil

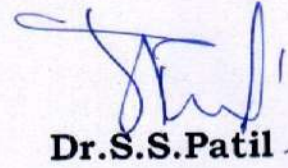
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Action Plan

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Dr. B. A. M. University,
Aurangabad.


II - GREENING THE CAMPUS

- 1) Is there a garden in your College Yes No
- 2) Do student spend time in the garden? Yes No
- 3) List the plants with approx. numbers of each species.

Numbers of plants in campus is approx.285

List the species with numbers.

Name	No's	Name	No's	Name	No's
Plumier	02	Almond	06	Bamboo	02
Hibiscus	20	Java Plum	07	Cascabelathevetia	8
Pin Wheel Flower	18	Coconut	03	Neem	24
Tacoma	22	Tamarind	06	Banyan	05
Rose	08	Bottle Plant	8	Lemon	02
Guava	22	Custard Apple	04	Drum Stick	07
Mango	16	Christmas	01	Asoka	16
Meliaceia	16	Bauhinia variegata	50	Teak wood	03
Babul	18	Peepal	03	Bel	04
Cactus	04	Umber	07	Gulmohar	05



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5) How many CFL, LED bulbs has your College installed?

- a) CFL - 194 b) LED- 144

6) Any alternative energy sources employed / installed in your College? Yes, No

7) Do you run "switch off" drills at College? Yes No

8) Are your computers and other equipment's are been put on a power saving mode?

Yes No

9) Does your machinery (TV, AC, Computer, weighing balance, Printers, etc.) Run on standby modes most of the time? Yes No

If yes, how many hours in a day?

- Averagely 2 to 3 hours per day



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ENVIRONMENTAL AUDIT

2020-2021

QUESTIONARIES

Name of College: - Smt. S.K. Gandhi Arts, Amlok Science and P. H. Gandhi Commerce
College, Kada, Taluka Ashti, District Beed. (M.S.).

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Name of coordinator: - Dr. N. S. Rathi and Gawali N. T.

Mobile No: - 8793507925, 8668947965.

Date commenced:- 1/08/2021

Date completed:- 27/11/2021

Put mark in appropriate box


What is the total strength of student and teachers in your College? (Approx)

No. of Student No of Teacher

Sr no		Students	Teaching Staff	Non-Teaching Staff	Peons	Security
1	UG	949	42	20	3	2
2	PG	107	9			
		1056	51	20	3	2

Which of the following are available in your college?

- 1) Garden area with Lawn 5826.5 m²
- 2) Play Ground 4752 m²
- 3) Pantry 1
- 4) Toilets (number) Male 3 No's Females 3 No's
- 5) Garbage dumps (number) 2 No's
- 6) Laboratory CHE-3,BOT-2,ZOO-1,PHY-1,GEO-1,COMP-1, BCA-1.
- 7) Canteen 1
- 8) Other (specify)
 - Rain water harvesting
 - Underground water tank
 - Workshop
 - Septic Tank


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Date: 10/12/2021

CERTIFICATE

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The detailed report is forwarded to the college.

Dr. S. S. Patil

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