

## Institutional Best Practices

### Best Practices-I

#### 'Preparation of Sustainable Bio-fertilizer for Agriculture'

##### Objectives:

1. To create awareness regarding the harmful effects of chemical fertilizers.
2. To create awareness in the farmers regarding the benefits of the use of organic fertilizers.
3. To maintain the balance of Eco system.
4. To take care of human health

##### The Context:

Sustainable bio-fertilizer can successfully replace chemical fertilizers for producing maximum crops without any bad effects to the soil and human health. We know that farmers' suicide is a stigma on our society. Farmers in Maharashtra, especially in Vidarbha region, have committed suicide as they could not cope-up with the expenditure in farming. Every year, the expenditure on farming is more than the profit and therefore farming has become a herculean task for the farmers. In this context, use of sustainable bio-fertilizers in farming is more economical. Secondly, the farmers have been widely using the chemical fertilizers and pesticide in farming to increase their crop productivity. Although these chemicals make it possible to produce large quantity of crops, it destroys soil fertility. Its residual effects deteriorate the soil and make it non-fertile as it depletes the microbial counts. In this context of excessive use of industrial techniques and chemicals in farming, it is important to make awareness in the farmers about the less utilization of chemicals and maximum use of ecological bio-fertilizer for farming. Thirdly, the use of Sustainable Bio-fertilizer for agriculture plays vital role in reconverting the non-fertile soil in to productive or fertile soil. This Biological process causes no harm to the environment. It is completely eco-friendly and has positive impact on the environment. It maintains the soil quality, reduces soil degradation and erosion and produces healthy organism in the nature. In this context, this practice of using Sustainable Bio-fertilizer for agriculture in farming is eco-friendly and our institution is a part and parcel of maintaining the eco system. Fourthly, the crops produced through Sustainable Bio-fertilizer are more nutritious and healthier than the crops produced by chemical



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fertilizers. The same crops seeds can be used for the next year crops by the farmers. In this way, the nutritious crop-ratio is gradually increasing in the area. Consequently, the institution's practice of preparation Sustainable Bio-fertilizer affects and cares for the human health.

**The practice:**

Our institution organizes various awareness programmes for the farmers through NSS activities. NSS has adopted nearby village Nimbhora, where the Department of Bio-Technology conducts some lectures on economical farming for the farmers. The college has started Bio-Technology Department in the year 2002, and the practice of preparation of sustainable fertilizer for agriculture has been started and continued since last seven years. In the beginning, liquid formation of bio-fertilizer has been given to the farmers of adjacent areas as well as the NSS adopted village Nimbhora for testing it in their farms. Conventional agriculture techniques have been practiced by the farmers. Repeated cultivation on the same land reduces the population of natural soil microbes and soil purity. This deficiency of nutrients in soil reduces productivity of crops. The institution has tried to overcome this problem, with the efforts of Bio-Technology Department. The use of microorganism such as N: P: K along with K: S: B, Zn SB, Si mobilizes and salinity depletes microbial cultures. The ingredients used for preparation of Bio-fertilizer are as follow: 1) Rhizobium medium 31.8 gm/Lt. 2) Jenson's medium 24.1gm./Lt. 3) Pikovskays 31.3 gm/Lt. 4) Asospirillum medium 26 ml/Lt. 5) Acetobacter 24 ml/Lt. 6) Nutrient Broth 28 gm/Lt. All these mediums are used for the preparation of Broth of Particular Microbial culture (at 121°C for about 30 minutes). Fully grown microbial cultures are used for the seed treatment and root treatment at the time of sowing. These 'sustainable bio-cultures' are made available to the farmers. These fertilizers fulfill the nutrient requirements of various crops species and develop sufficient capacity in native soil micro-organisms to survive in the soil with other microbes. Initially, the farmers are given information about the benefits of sustainable fertilizer in farming. It is essential to change their mentality to prefer the sustainable fertilizer because it is comparatively slow in result. These fertilizers are bio-inoculants so they should be utilized at the time of sowing or at the time of garden plantation. This culture is playing vital role in reconvertng the non-fertile soil into fertile. It is absolutely eco-friendly causing no harm to the environment as well as to the farmers. On the contrary, consuming chemical fertilizer many times becomes the reason of farmer's death. The bio-fertilizer does not consist any chemicals harmful to the living soil. 5. Evidence of success Feed backs from farmers are taken in the written form. Their views about the benefits of the product along with their phone



  
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numbers are remarked in the note book. It has been decided to fulfill their demands as per their requirements.

The use of culture benefits the farmers in various ways. Their feedback shows the result of various benefits as given below:

1. Germination rate of seeds rose.
2. Comparative Growth of treated crops is higher than the untreated crops.
3. The yield rose up to around 30 which is qualitative and organic.
4. Less use of chemical fertilizers and pesticides is eco-friendly.
5. The root diseases of crops get controlled absolutely.
6. The produced crops are organic and healthy.
7. The plants need less chemical fertilizer doses.
8. Sustainable fertilizers make the soil perforated and water holding capacity get increased.
9. The result of Sustainable fertilizers is satisfactory for farmers.

#### **Problems encountered and resources required**

1. Reduction in soil productivity, porosity due to high use of chemical fertilizers.
2. Higher doses of bio fertilizers are required.
3. Greater number of spray and higher doses needed to kill the pests.
4. Ecological disturbances on environment and bio-cycle of chemical pollutants are hazardous carcinogenic.

**Notes:** Sometimes it is difficult to convince the farmers to use bio-fertilizers as farmers want instant results.



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## REPORT 2019-2020 (BEST PRACTICE)

### Preparation of Sustainable Bio-fertilizer for Agriculture

#### Objective of the Activity:

1. To create awareness regarding the harmful effects of chemical fertilizers.
2. To create awareness in the farmers regarding the benefits of the use of organic fertilizers.
3. To maintain the balance of Eco system.
4. To take care of human health

Sustainable bio-fertilizer can successfully replace chemical fertilizers for producing maximum crops without any bad effects to the soil and human health. We know that farmers' suicide is a stigma on our society. Farmers in Maharashtra, especially in Vidarbha region, have committed suicide as they could not cope-up with the expenditure in farming. Every year, the expenditure on farming is more than the profit and therefore farming has become a herculean task for the farmers. In this context, use of sustainable biofertilizers in farming is more economical.

Secondly, the farmers have been widely using the chemical fertilizers and pesticide in farming to increase their crop productivity. Although these chemicals make it possible to produce large quantity of crops, it destroys soil fertility. Its residual effects deteriorate the soil and make it non-fertile as it depletes the microbial counts. In this context of excessive use of industrial techniques and chemicals in farming, it is important to make awareness in the farmers about the less utilization of chemicals and maximum use of ecological bio-fertilizer for farming.

Thirdly, the use of Sustainable Bio-fertilizer for agriculture plays vital role in reconvertng the non-fertile soil in to productive or fertile soil. This Biological process causes no harm to the environment. It is completely eco-friendly and has positive impact on the environment. It maintains the soil quality, reduces soil degradation and erosion and produces healthy organism in the nature. In this context, this practice of using Sustainable Bio-fertilizer for agriculture in farming is eco-friendly and our institution is a part and parcel of maintaining the eco system.

Fourthly, the crops produced through Sustainable Bio-fertilizer are more nutritious and healthier than the crops produced by chemical fertilizers. The same crops seeds can be used for the next year crops by the farmers. In this way, the nutritious crop-ratio is gradually increasing in the area. Consequently, the institution's practice of preparation Sustainable Bio-fertilizer affects and cares for the human health.



A handwritten signature in blue ink, appearing to be "Principal".

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Our institution organizes various awareness programmes for the farmers through NSS activities. NSS has adopted nearby village Nimbhora, where the Department of Bio-Technology conducts some lectures on

economical farming for the farmers. The college has started Bio-Technology Department in the year 2002, and the practice of preparation of sustainable fertilizer for agriculture has been started and continued since last seven years. In the beginning, liquid formation of bio-fertilizer has been given to the farmers of adjacent areas as well as the NSS adopted village Nimbhora for testing it in their farms. Conventional agriculture techniques have been practiced by the farmers. Repeated cultivation on the same land reduces the population of natural soil microbes and soil purity. This deficiency of nutrients in soil reduces productivity of crops. The institution has tried to overcome this problem, with the efforts of Bio-Technology Department.

These 'sustainable bio-cultures' are made available to the farmers. These fertilizers fulfill the nutrient requirements of various crops species and develop sufficient capacity in native soil micro-organisms to survive in the soil with other microbes.

Initially, the farmers are given information about the benefits of sustainable fertilizer in farming. It is essential to change their mentality to prefer the sustainable fertilizer because it is comparatively slow in result. These fertilizers are bio-inoculants so they should be utilized at the time of sowing or at the time of garden plantation. This culture is playing vital role in reconverting the non-fertile soil into fertile. It is absolutely eco-friendly causing no harm to the environment as well as to the farmers. On the contrary, consuming chemical fertilizer many times becomes the reason of farmer's death. The bio-fertilizer does not consist any chemicals harmful to the living soil.

### **RESULTS:**

Feed backs from farmers are taken in the written form. Their views about the benefits of the product along with their phone numbers are remarked in the note book. It has been decided to fulfill their demands as per their requirements. The use of culture benefits the farmers in various ways. Their feedback shows the result of various benefits as given below:

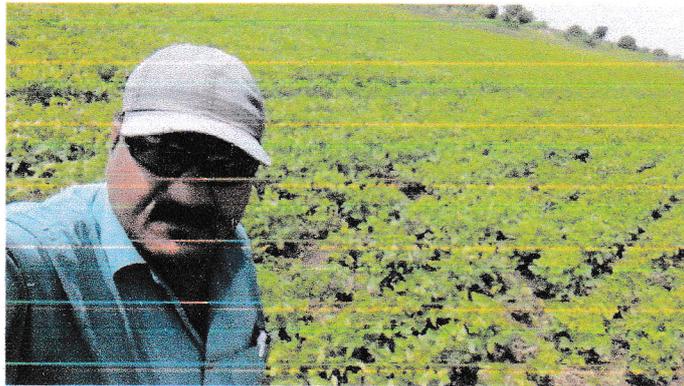
1. Germination rate of seeds rose.
2. Comparative Growth of treated crops is higher than the untreated crops.
3. The yield rose up to around 30% which is qualitative and organic.
4. Less use of chemical fertilizers and pesticides is eco-friendly.
5. The root diseases of crops get controlled absolutely.
6. The produced crops are organic and healthy.
7. The plants need less chemical fertilizer doses.
8. Sustainable fertilizers make the soil perforated and water holding capacity get increased.
9. The result of Sustainable fertilizers is satisfactory for farmers.



  
Principal

Maharatiya Mahavidyalaya,  
Amravati.

Photograph



  
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Bharatiya Mahavidyalaya  
Amravati

## Best Practice –II

### Community service by helping de-addiction of alcohol in the surrounding community where alcohol drinking is very rampant.

#### Objectives:

1. The main objective is to solve the common problem of drinking and help the people to recover from alcoholism.
2. The primary purpose is to stay sober and help other alcoholics to achieve sobriety.
3. To create awareness regarding ill effects of alcoholism and drug abuse.
4. To help the victims of alcohol abuse and indirectly help their whole family lives a happy and comfortable life and helps the society at large.
5. Save the marriages and the extended families of people addicted with alcohol abuse.
6. Control the risk of injuries and accidents due to alcohol abuse.
7. Help facilitate the health, happiness, safety and well –being of the society.
8. To help alcoholics recover from the numerous medical, psychiatric, social and family problems.

#### Context:

Alcohol, also known by its chemical name ethanol, is a psychoactive substance that is an active ingredient in drinks. The short and long term effects of alcohol can affect one's body, lifestyle and mental health. Alcohol is a depressant drug, which means it slows down the messages travelling between the brain. It can lead to an increased risk of health problems such as injuries, violence, liver diseases etc. According to WHO about 35-40 of the world population is reported to consume alcohol regularly. In an average an individual consumption amounts to 6.2 liters of alcohol each year. About 30 of India's population consumes alcohol regularly. An average Indian consumes about 4.3 liters of alcohol per annum says a report. One Indian dies every 96 minutes due to alcohol consumption. Our state Maharashtra and specifically our Vidarbha area is badly affected by habit of drinking. In our surrounding nearby area many families are suffering from the ill-effects of drinking.

#### The Practice:

Realizing one has the problem with alcohol is the first step to getting better, but it is often the hardest one. If one has become physically dependent on alcohol and needs to stop drinking completely,



  
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stopping overnight could be harmful. But cutting down or stopping drinking is usually just the beginning and most people need some degree of help or a long term plan to stay in control or completely alcohol free. Getting right support can be crucial to maintaining control in the future. Only relying on family, friends or care takers for this often is not enough. In such cases 'Alcoholic Anonymous' is a long-term support available throughout Maharashtra and India. Alcoholic Anonymous is accessible in most areas. Our college Bharatiya Mahavidyalaya, Amravati has signed an MOU with this fellowship of A A. Under this MOU we permit A. A. to conduct A. A. meetings on every Tuesday and Thursday during 7:00 to 8:00 p.m. since 2015. We have continued it in 2015-16, 2016-17 and 2017-18 in our college. Many members of the nearby Rajapeth area and other surrounding areas have been completely recovered from alcoholism. Not only people from the poor strata of society but also many educated people like professors, Engineers, and Doctors also have got themselves admitted in the A. A. meetings held in our college. They have become sober and are highly thankful to the A.A. fellowship. Alcoholic Anonymous is a fellowship of men and women who share their experience, strength and hope with each other so that they may solve their common problem and help others to recover from alcoholism. The only requirement for membership is a desire to stop drinking. There are no dues or fees for A.A. membership. They are self-supporting through their own contributions. Our college also supports the A.A. financially through contributions from our staff members. Their primary purpose is to stay sober and help other alcoholics to achieve sobriety. The A.A. is a fellowship which maintains the anonymity of the members admitted to it. The names of the member is not disclosed and is kept secret to help the member free of guilt and shame free. (Every year about 50-60 members have completely recovered. They are now living a very happy and healthy life. People are now feeling free to approach us for their problem of drinking. We are happy that people from all walks of life are being benefitted by this MOU with A.A.)

**Evidence of success:**

The A.A. fellowship has given our college letters of thanks for our MOU with them. They are very grateful to us for helping them to conduct their meetings on every Tuesday and Thursday during 7:00 to 8:00 p.m. They have given the number of members who have recovered completely. They are now living a very happy and healthy life. This has resulted in bringing happiness in their families. This has in turn contributed to the wellbeing of the society. People are now feeling free to approach us for their problem of drinking. We are happy that people from all walks of life are being benefitted by this



  
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MOU with A.A. Women from the surrounding area are especially thankful to us for helping their family members to recover from the habit. This has affected in controlling the incidents of violence and wife beating. Many members have given us letters of thanks with names changed. Women too have sent us written thanks for bringing happiness and well-being in their families.

**Problems encountered and resources required:**

1. Many addicts hesitate to take the first step of admitting themselves in the class.
2. It is difficult to maintain the regularity of attendance of addicts in the class.
3. They feel that they may have to suffer from withdrawal symptoms.

As the A.A. is free of charge, funds have to be generated from other resources.

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**YEAR 2019-2020**

**De-Addiction Class at Bharatiya Mahavidyalaya Amravati**

Jointly organized by Alcoholics Anonymous group and Bharatiya Mahavidyalaya, Amravati was held on every Tuesday and Thursday (2019-2020)

**What is Alcoholics Anonymous?**

Alcoholics Anonymous is a fellowship of men and women who share their experience, strength and hope with each other that they may solve their common problem and help others to recover from alcoholism.

The only requirement for membership is a desire to stop drinking. There are no dues or fees for AA (Alcoholics Anonymous) membership. We are self-supporting through our own contributions. AA is not allied with any sect, denomination, politics, organization or institution; does not wish to engage in any controversy; neither endorses nor opposes any causes. Our primary purpose is to stay sober and help other alcoholics to achieve sobriety.

**Outcome of Programme:**

About 13 people from nearby locality of the institute recovered from the bad habit of drinking alcohol by joining the De-Addiction Class jointly organized by Alcoholics Anonymous Group and Bharatiya Mahavidyalaya, Amravati. People from all walks of life started joining the class. After recovering they are living a happy and healthy life. Many marriages were saved. It ultimately contributed to the well-being of the society.



  
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*Bharatiya Vidya Mandir's*

# **BHARATIYA MAHAVIDYALAYA, AMRAVATI**

**NAAC Re-accredited B Grade With CGPA - 2.76**

**(Arts, Commerce, Science & H.S.C. Vocational)**

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**Website. bmvamt.org - E-mail : bmvamt@gmail.com**

***Dr. A. J. Gadewar***

*M.Sc Tech., M.Phil, Ph.D.*

Principal

**Ref. No.**

**Date : 15.09.2015**

## **MEMORANDUM OF UNDERSTANDING (MOU)**

Between

**BHARATIYA MAHAVIDYALAYA, AMRAVATI**

And

**ALCOHOLICS ANONYMOUS, INTERGROUP AMRAVATI**

This MOU is made on Tuesday, 15 September 2015

### **About Bharatiya Mahavidyalaya, Amravati:**

Bharatiya Mahavidyalaya, Amravati is an institute run by Bharatiya Vidya Mandir, Amravati. The college was established in 1963 and has undergraduate courses in the Faculty of Arts, Commerce and Science; and Post-graduate courses in English, Geography, Commerce and Computer Science. The mission of the institution is "Sahaviryam Karwawahe". This means "Let Us Progress Together." To unite the fragmented society by the strong thread of brotherhood, fraternity and education has been the sole mission of the institution.

### **About Alcoholics Anonymous:**

Alcoholics Anonymous was founded in June 1935 by Mr. Bill W. and Dr. Bobin Akron city of America. Since then AA has been carrying the message of recovery in about 180 countries and has 40 lakhs people as it's members worldwide. In India, AA works through 3000 groups and has 40000 members. AA is not an organization in the conventional sense of the word and charge no fees or dues. The only requirement for membership is an honest desire to stop drinking. Alcoholics Anonymous, Intergroup, Amravati strives hard to match with the goals and objectives set by this International Fellowship.

### Objectives of the MOU:

1. The main objective is to solve the common problem of people in local society and help them to recover from alcoholism.
2. The primary source is to stay and help other alcoholics to achieve sobriety.
3. To create awareness regarding ill effects of alcoholism and drug abuse.
4. To help the victims of alcohol abuse and indirectly help their whole family live a happy and comfortable life and help the society at large.
5. Save the marriages and the extended families of people addicted with alcohol abuse.
6. Control the risk of injuries and accidents due to alcohol abuse.
7. Help facilitate the health, happiness, safety and well-being of the society.
8. To help alcoholics recover from the numerous medical, psychiatric, social and family problems.

### Terms and Conditions:

- The institute will provide the resources required.
- Conduct of AA meetings on every Tuesday and Thursday.
- MOU will remain valid up to 2020.



Principal  
Principal  
Bharatiya Mahavidyalaya  
Amravati



Chairman  
A.A.Intergroup,  
Amravati

केवल ईश्वराची कृपा



# अल्कोहोलिक्स अॅनॉनिमस आंतर समूह, अमरावती



स्कॉलर्स कान्हेट, दसरा मैदान, बडनेरा रोड, अमरावती हेल्पलाईन : 7507654452 amravati.ig.@gmail.com

अल्कोहोलिक्स अॅनॉनिमस (अ.अ.) जी.एस.ओ. - भारत-मुंबई हेल्पलाईन : ९०२२७७९०९९

फोन : +९१-२२-६५०५५९९३४ Website : www.aagsoindia.org. Email : info@aagsoindia.org

* चेयरमन *	* पी.आय.चेयरमन *	* ट्रेजरर *	* सेक्रेटरी *	* लिटरेचर सेक्रेटरी *
उमेश टी.	मोहन एन	प्रकाश टी.	निखील टी.	अमोल जे.
मो. ९४२९०४२७२४	७५०७६५४४५२	९८२२५६२७८७	८८८८२८७४९७	९६८९९७९२५

To,

Date :15/10/2015

The Principal,  
Bharatiya College,  
Rajapeth, Amravati  
Respected Madam,

Amravati fellowship of alcoholics Anonymous (AA) Is Very Thankful To  
You For Your Co-Operation And Permission For Conducting Our AA Meetings Of Every Tuesday And Thursday Since  
15/09/2015 In Your College

AAC Was Founded In June 1935 By Mr.Bill W. And Dr.Bob In Akron City Of America Since Then AA Carries The  
Message Of Recovery In About 180 Countries And With The Help Of AA Members 40 Lacs Members Are Sober  
Today. In India AA Works Through 3000 Groups And There Are Near About 4000 Members Sober Today.

Main purpose Of AA Is To Insure The Sobriety Of The Existing Members And To Carry The Message Of Recovery To  
Still Suffering Alcoholics The AA Members Share Their Experience Hope And Strength To The Newcomers It Helps  
The Newcomers To Identify Their Illness.

We Are Not Organization In The Conventional Sence Of The Word There Are No Fees Or Dues Whatsoever The  
Only Requirement For Membership Is An Honest Desire To Stop Drinking .We Are Not Allied With Any Particular  
Faith Sect Or Denomination Nor Do We Oppose Anyone. We Simply Wish To Helpful To Those Who Are Afflicted.

When Writing Or Speaking Publicly About Alcoholism We Urge Each Of Our Fellowship To Omit His Personal Name  
Designating Himself As A Member Of Alcoholics Anonymous .

We Never Break Self As Well AS Other Anonymity As The Anonymity Is The Spiritual Foundation Of All Our  
Traditions Ever Reminding Us To Place Principles Before Personalities.

Thanking You.

Your Faithfully.

  
(Mohan Nikode)

P.I Chairman

A.A. Intergroup, Amravati.