

***CURRICULUM VITAE of***  
**DR. S.M. AFSARUZZAMAN**  
***Ph.D and Post Ph.D; FRES(U.K),FESA (USA)***  
***Bangabandhu Gold Medalist***  
***(one of the highest honor of the Nation)***

**Name** : **DR. S.M. AFSARUZZAMAN**

**Father's Name** : Late Md. Didar Hossain Sarkar.

**Mother's Name** : Late Furkonnessa Khanam

**Permanent Address** : Vill Mamud pur, Nazipur Poursava,  
P.O.and Upazila: Patnitola,  
District: Naogaon, Bangladesh.

**Marital Status** : Widower with one son

**Nationality** : Bangladeshi (by birth).

**Date of Birth** : 31 October, 1955.

**Contact Number** :  
**Cell Phone: +880-1715793839, +880-1923234569**

**E-mail** : [safsaruzzaman@yahoo.com](mailto:safsaruzzaman@yahoo.com)  
[safsaruzzaman@gmail.com](mailto:safsaruzzaman@gmail.com)

**Website** : [smarfsaruzzaman.com](http://smarfsaruzzaman.com)

**Place of Birth** : Patnitola, Naogaon, Bangladesh.

**Religion** : Islam (Sunni)



## **Educational Qualification**

1974-75- 1977-78 B.Sc Ag. (Hon's)

1978 - 1979 Master of Science ( Agriculture)

1996-1999 (Ph.D.),

2011-2014 (Post Ph.D., Leeds University, UK)

**\*Fellow and Member, Royal Ent. Society (U.K)**

**Fellow and Member, FESA (USA)**

## **Professional Experience**

Chairman: Mass Customized Food and Nutrition Research, , BANGLADESH

**Consultant:** IFC managed Pilot Program for Climate Resilience, Bangladesh (Climate Resilience and Food Security component). And

**Advisor:** Climate SMART Agriculture, Service and Solution International Ltd.

, Dhaka-1207, BANGLADESH

Author, Facilitator- Ministry of ENVIRONMENT & Forest, BANGLADESH

: Co-ordinator ( Director)

National Nutrition Programme (NNP),  
Ministry of Health & Family Welfare, BANGLADESH

Member, A2i programme, Prime Minister's Office,, BANGLADESH

Director, Additional Secretary ,Ministry of Agriculture, BANGLADESH

**In- country training (About 100; Part of that are) :**

**ii) Foreign Training ((About 40; Part of that are)**

**No. of Publication\*, Seminar Reading and conference papers, etc. : 50**

**No. of Research conducted: 30**

**No. of Project Implementation Plans (PIP /DPP) Prepared: 35**

**No. of the books written /edited (14)**

- a) Prativity.
- b) Pathikrit
- c) Concept and review of IPM
- d) Concept and review of mosquitoes born diseases.
- e) Drama: Lyaj Katben Can (Why you will cut the tail)
- f) Crop production in the hilly areas of Bangladesh.
- g) Sustainable hill agriculture – an alternative to jhume.
- h) Problem and prospects of hilly areas and the modern agricultural technologies.
- i) Two profitable cropping pattern and the system of rice intensification.
- j) Modern Nutrition, Health & Agricultural Technology.
- k) IPM Field Guide
- l) IPM Club Guide
- m) Micro-environment wise homestead development
- n) Agricultural problem prospect and steps to be taken for development of haor region

**No. of the booklets written /edited (35, some of that are):**

- a) Crop Intensification, cropping pattern, healthy seeds and improved techniques:
  - i. Rice Intensification Handbook
  - ii. Wheat Intensification Handbook
  - iii. Mustard Intensification Handbook
  - iv. Maize Intensification Handbook
  - v. Water Intensification Handbook
  - vi. System of Rice Intensification
- b) IPM Project at a glance
- c) Management of brinjal fruit and shoot borer
- d) Management of Hispa
- e) Management of Brown plant hopper
- f) Production of healthy seed
- g) Rice Fish Culture (RFC)
- h) Ail crop production
- i)\* Micro-niche wise Homestead development
- j) Management of rat and related animals

- k) Method and technique of floating vegetable cultivation
- l) Ingredients of human foods and their functions
- m) Excellent nutritious and medicinal plants of Bangladesh.
- n) ‘Causes and Assessment of malnutrition’
- o) ‘Nutrients deficiency symptoms in different age group & organs and their causes & remedies’
- p) ‘Adulteration of chemical and colors in the food’
- q) Functions of Vitamins and Micro-nutrient’s in the body
- r) Role of food for the prevention of diseases
- s) Child health and nutrition management
- t) The way of production of Sufficient and Essential Nutrients from Homestead only.
- u)\* Wonderful researches on nutrition, organics & health,
- v) Bad effects of up taking excess ingredients food, vitamins & minerals
- w) Child Food Pyramids and Steps to be taken for development of I.Q of children
- x) Safe & Nutritious Food for different human groups:
  - i. Safe & Nutritious Food for the pregnant and lactating mothers.
  - ii. Safe & Nutritious Food for the adolescents and old people.
  - iii. Safe and wonderful medicinal plants for the remedies of Diabetes and Heart diseases.
  - iv. Safe and wonderful medicinal plants for the remedies of Angeriness and Alzheimer.
- y) Crops harvesting techniques, Local/ low cost methods, post harvest techniques for nutrients loss minimization:
  - Crops harvesting techniques & post harvest techniques for minimization of nutrients.
  - Local/ low cost methods & techniques of food preservation.
  - How to solve nutritional problem from safe crop of homestead cultivation
  - Preservation Fruits and vegetable at household level’
  - \* Scientific storage and Nutrients conservation techniques in ‘Fruits and Vegetable.
  - Modern techniques of safe food cultivation and way of in-taking nutrients from organics

**a) Nutrition BOOK-1 : ‘Modern Nutrition, Health & Agricultural Technology’, the book No.1 contains 7 Chapters and the ppp -1 contains 171 slides are as follows-**

Chapter- I : **Food - Nutrition and Metabolism technology** : Introduction, WHAT is Food & Nutrition, why Food & Nutrition, Ingredients of Food, Dietetics, Nutrition of different food, deficiency symptoms, harms of excess nutrients, sources of nutrients, Balance Food Calorie & basic digestion or Metabolism technologies.,

Chapter - II : **Age- wise Nutrition and health management** : Child Health & Nutrition management , Steps to be taken for the manifestation of child intelligent quotient (I.Q) and influence of nearby environment for the development of I.Q of children. Health & Nutrition management for the pregnant & lactating mothers and techniques Health & Nutrition management for the adolescent & old ages and techniques

Chapter-II I : **Health is for healthiness and it is the awareness about Nutrition.:** Steps to be taken for healthiness, Food for prevention of diseases, Maintaining healthy environment, Health, Nutrition & Agricultural information.

Chapter- IV : **Role of Agricultural technology to minimize the Nutrition deficiency:** Cultivation of high nutrient content vegetable, fruits & flowers; Cultivation, preservation of seeds in the homestead and examination of their characteristics. Low cost local technologies.

Chapter- V: **Integrated Food and Crops Management:** Integrated Crops and Pest Management; Crops harvesting systems & decreasing of post-harvest loss of nutrient ingredients; Systems of food preservation.

Chapter- VI: **Healthiness and Plants for the benefit of mankind:** Herbal characteristics of some easily available plants; Several herbal plants for the treatment of some disease; herbal plants for the treatment in case of the biting of some poisonous organism/animals; herbal plants for the prevention of the diseases of domestic animals.

Chapter-VI I: **Miscellaneous:** Some tables; photos; nutrients sources, food charts, etc References, etc.

- b) **Nutrition BOOK-2** ‘-Preservation Fruits and vegetable at household level’, **(ppp) -2 1 contains 71 slides:** Objectives of fruits and vegetable preservation at household level, definition, causes of rotting, 8 process of preservation, 5 native /natural process of fruit and vegetable preservation, Ingredient & instrument required and methods of preparation. The methods of preparation of Jelly, jam of pine apple etc. , Morabba & candy of white gourd etc., pickles, sour-sweet pickles of brinjal, etc. The methods of preparation of pickles of hog, olive, etc. The methods of preparation of ketch up , sauces of tomato etc. The methods of preparation of chips of potato etc,

- c) **Book 3. ‘Causes and Assessment of malnutrition’ (ppp)- contains 51 slides:**  
Causes

of malnutrition, identifying of malnutrition from

- i) Body weight, ii) food intake capacity iii) disorders of digestive system
- iv) chronic diseases v) food habit vi) others

\* Deficiency symptoms in different organs:

- |                                     |                             |              |
|-------------------------------------|-----------------------------|--------------|
| i) Hair                             | ii) De-pigmentation of face |              |
| iii) Eye                            | iv) Leap                    | v) tongue    |
| vi) Teeth                           | vii) pad of teeth           | viii) glands |
| ix) skin (dyspigmentation)          |                             | x) muscles   |
| xi) Heart (above 100 tacky- cardiac |                             | xii) Liver   |
| xiii) Pares-thesis etc.             |                             |              |

**d) Book-4 : ‘Nutrients deficiency symptoms in different age group & organs and their causes & remedies’- (ppp-4) contains 41 slides :**

**\* Dietary chart for different age group and patients**

- i) Dietary chart for different for different age group and patients
- ii) Deficiency symptoms of fat soluble vitamins:
- iii) Water soluble vitamins
- iv) Minerals etc

**\*\* Deficiency symptoms in different organs and their causes & remedies:**

- |                                     |                             |
|-------------------------------------|-----------------------------|
| i) hair                             | ii) De-pigmentation of face |
| iii) eye                            | iv) Leap                    |
| v) tongue                           | vi) teeth                   |
| vii) Pad of teeth                   | viii) glands                |
| ix) Skin (dyspigmentation)          |                             |
| x) Muscles                          |                             |
| xi) Heart (above 100 tacky- cardiac |                             |
| xiii) Pares-thesis etc. in details  |                             |

**e) Book-5: ‘Adulteration of chemical and colors in the food’ – (ppp-5) contains 51 slides.**

- i. red color in rice.
- ii. Formalin in Fish, Meat etc
- iii. Carbide in fruits
- iv. Lead, cadmium, zinc in water
- v. urea & hydrose in fried rice, molasses
- vi . Soap, caster oi / vender oil in mustard oil.
- vii. Chemical colors in bisquit, ice cream, cake, chocolate, khaja , jam, jelly, sweets, noodles, pickles etc.
- viii. Mobil in petttis, samucha, biscuit,
- ix. Soap, fat, carrot, sweet gourd in ghee.
- x. per- oxide, soda , fat, color for milk.
- xi. Sweets, saccharine, flavor, caffeine, aspartame, preservative s etc for cold drinks
- xii. Sweet gourd, sugar, color, flavor, preservatives etc for diff. juices.

**f) Book-6: ‘Functions of Vitamins and Micro-nutrient’s in the body ’ - (ppp-6) : contains 41 slides.**

- i) introduction: Vitamin and Micro-nutrient’s function in the body ’
- ii) Function of Water soluble Vitamin in the body.
- iii) Function of fat soluble Vitamin in the body.

- iv) Function of iron, iodine, phosphorus, zinc, sodium, chlorines, potassium etc in the body.
- v) Function of electrolytes in the body.
- iv) Function of the other Micro-nutrient's in the body.

**g)Book-7: Scientific storage and Nutrients conservation /raising techniques in 'Fruits and Vegetable' (ppp- 7) : contains =31 slides.**

- i) introduction Scientific storage'
- ii) Introduction Nutrients conservation techniques in 'Fruits
- iii) Introduction Nutrients conservation techniques in 'vegetable
- iv) Materials required for scientific storage'
- v) Methods of Scientific storage'
- vi) Methods of Nutrients conservation techniques in 'Fruits
- vii) Methods of Nutrients conservation techniques in 'Vegetable

**h)Book-8: Modern techniques' of safe food cultivation and way of in-taking nutrients from organics safely. (ppp-8) : contains 81 slides.**

- i) Introduction to Modern techniques' of safe food cultivation and way of in-taking  
nutrients from organics safely.
- ii) Modern methods & techniques' of safe food cultivation and preservation.
- iii) Materials required for of safe food cultivation and way of in-taking  
nutrients from organics safely
- iv) Different ways of in-taking nutrients from organics safely.
- v) Methods and techniques of Scientific storage 'of Nutrients.
- vi) Methods and techniques of Nutrients conservation in the food items.
- vii) Methods of Nutrients conservation techniques in 'Vegetable

**i) Book-9: The way of production of Sufficient and Essential nutrients from Homestead only. (ppp-9) : contains =71 slides.**

- i) Introduction to the way of production of Sufficient and Essential nutrients from Homestead only.
- ii) Modern methods & techniques' to the way of production of Sufficient and essential nutrients from Homestead.
- iii) Materials required for the production Essential nutrients from Homestead.
- iv) Using the quick and other compost.
- v) Using all the possible micro-niche in the homestead.
- vi) Using gunny bags, bottles, polythene, tobs, etc
- vii) Using methods and techniques for the food items conservation.

**j) Book-10: Ingredients of human food and their functions.**

**(ppp-10) : contains =87 slides.**

- i) Introduction to the ingredients of human food and their functions
- ii) Classification of Ingredients of human food and their functions
- iii) Materials required for the production Essential nutrients from Homestead.
- iv) Defficiency symptoms Ingredients of human food.
- v) Sources of the Ingredients of human food.
  - Plants source
  - Animal source
- vi) Suggestions for minimization of loss of the Ingredients.
- vii) Bad effect of up taking excess amount of food ingredients..

**k) Book11: Bad effects of up taking excess ingredients food, vitamins & minerals  
(ppp-11) : contains =81 slides.**

- i) Introduction to the bad effects of up taking excess ingredients food, vitamins & minerals
- ii) Classification of Ingredients of human food and their functions
- iii) Materials required for the production Essential nutrients from Homestead.
- iv) Defficiency symptoms Ingredients of human food.
- v) Sources of the Ingredients of human food.
  - Plants source
  - Animal source
- vi) Suggestions for minimization of loss of the Ingredients.
- vii) Bad effect of up taking excess amount of food ingredients..

**l) Book-12: Child Food pyramids and Steps to be taken for development of I.Q of children. (ppp-12) : contains = 78 slides.**

- of
- i) Introduction to the Child Food pyramids and Steps to be taken for development I.Q of children
  - ii) What is Child Food pyramids Importance of the Child Food pyramids.
  - iii) Season and age wise child nutrition management
  - iv) Immediate steps to be taken when deficiency symptoms arises.
  - v) Importance of Brest feeding and balance food for development of I.Q of children.
  - vi) Steps to be taken for for development of I.Q of children
  - vii) Some methods for the measurement of I.Q of children
  - viii) Some memory games for the children.



**m) Book-13: Safe nutritious Food for the pregnant and lactating mothers.**

**(ppp-13) : contains =76 slides.**

- i) Introduction to the Safe nutritious Food for the pregnant and lactating mothers
- ii) what is the safe nutritious food for the pregnant and lactating mothers.
- iii) Season / condition wise management of the safe nutritious food for the pregnant and lactating mothers
- iv) Immediate steps to be taken when deficiency symptoms arises.
- v) Importance safe nutritious food for the pregnant and lactating mothers
- vi) Steps to be taken for safe nutritious food for the pregnant and lactating mothers
- vii) Daily dietary chart for the pregnant mothers
- viii) Daily dietary chart for the lactating mothers.

**n) Book-14: Safe nutritious Food for the adolescents and aged people.**

**(ppp-14) : contains =78 slides.**

- i) Introduction to the Safe nutritious Food for the adolescents and aged people
- ii) what is the safe nutritious food for the adolescents and aged people
- iii) Condition wise management of the safe nutritious food for adolescents and aged people
- iv) Immediate steps to be taken when deficiency symptoms arises.
- v) Importance safe nutritious food for the adolescents and aged people
- vi) Steps to be taken for safe nutritious food for adolescents and aged people
- vii) Daily dietary chart for the 10-14 years adolescent's.
- viii) Daily dietary chart for the 15-18 years adolescent's.
- viv) Daily dietary chart for the aged people.

**o) Book-15: Safe and wonderful medicinal plants for the remedies of Diabetes and Heart**

**disease ppp-15) : contains =56 slides**

- i) Introduction to the safe and wonderful medicinal plants for the remedies of Diabetes and Heart disease.
- ii) what is the safe and wonderful medicinal plants for the remedies of Diabetes and Heart disease
- iii) Condition wise management of the Safe and wonderful medicinal plants for the remedies of Diabetes and Heart disease
- iv) Usually available Safe and wonderful medicinal plants of Bangladesh.

- . v) Plants for the remedies of Diabetes and Heart disease.
- vi) Chemical composition and mode of action of the plants.
  
- p) **Book-16:** Safe and wonderful medicinal plants for the remedies of Angriiness and Alzheimer. **(ppp-16) : contains =36 slides**
  - i) Introduction to the safe and wonderful medicinal plants for the remedies of Angriiness and Alzheimer..
  - ii) what is the medicinal plants for the remedies of Angriiness and Alzheimer.
  - iii) Condition wise management of the Safe and wonderful medicinal plants for the remedies of Angriiness and Alzheimer. disease
  - iv) Usually available Safe and wonderful medicinal plants for Angriiness
  - . v) Plants for the remedies of Alzheimer.
  - vi) Chemical composition and mode of action of the plants in the body .
  
- q) \* **Book-17:** Excellent nutritious and medicinal plants of Bangladesh. **(ppp-17) : contains =68 slides**
  - i) Introduction to the safe and wonderful medicinal plants of Bangladesh
  - ii) Bengali, English, hindi/ sankrit and scientific name & photo of the plants.
  - iii) Condition wise management of the wonderful medicinal plants.
  - iv) Methods of using wonderful medicinal plants.
  - . v) Plants for the remedies of Alzheimer.
  - vi) Chemical composition and mode of action of the plants in the body.
  - vii) Is there any side effect of the plants in the body?

**Writings in the National Magazine on Nutrition, Food security & survey of sustainable food management system and also the techniques of increasing safe food and nutrition (attached pages in Bengali)**

### **Miscellaneous Skills and Information's:**

- Able to prepare any official, non-official documents, drafts, articles and features and different program and projects efficiently both in Bengali and English.

- I have attended many specialized training on crop protection and production, nutrition, conservation of natural resources, seed production, survey, administration, computer, etc. and acquired practical experience and also secured **distinction and 1<sup>st</sup> place** in most of the training.
- I have about 25 years of progressively responsible professional experience including IPM, ICM, EFM, SALT, M<sup>3</sup>- demo., research, partnership, co-ordination and office management, etc. and have prepared 50- seminar, reading and conference papers; and - **books (Agricultural , Food Security and Nutrition related).**
- I have practical knowledge about **policy and planning; good analytical ability;** initiative and ability to express ideas clearly and concisely both orally and in writing.
- Ability to prepare, edit and review reports and studies; having tact and courtesy and ability to work in a team and to establish and maintain effective working relationships with people of different national and cultural backgrounds.
- Having practical working experience in different agricultural development and national emergency operations and campaigns.
- Could easily cope with any versatile, vulnerable and unfavorable situation.
- Able to skillfully operate computer with widely used software and can drive light vehicles.
- Presented 'Key Note Papers' in different seminars.
- Developed RFP, strategic planning, Operational plan, Project Implementation plan and the basic documents for Partner NGOs and services under NNP.
- Worked as Core Training Team member for the Key Trainers of the Project, NNP.
- Developed advocacy packages and communication guidelines for different levels of project functionaries / target groups / officers and staff of different line ministries/ departments and NGOs.

### **Language:**

Having excellent knowledge of reading, writing and speaking in Bengali and English and fair knowledge of reading and writing of Arabic, Hindi and French.

### **Award / Reward:**

Awarded as the best Officer among all the Chittagong Division for Rat Control campaign and **integrated pest management**. During his service three farmers and an institution was awarded **Honorable President Prize for IPM**, improved crop management and tree plantation. His working station was selected for third national prize for successful rat control.

Awarded

- **Shilpacharja Puraskar** by the Shilpacharja Joynul Abedin Srity Parishad, Dhaka, Bangladesh:
- **Magazine Journalist Association Sammanana':**
- **Bijoy Dibas Sammanana' :**

- **Bhasa Shahid Srity Sammanana'**
- **National Poet Kazi Nazrul Islam Shwarok'**
- **Sher- e- Bangla AK Fazlul Haque Gold Madel '**
- **“Shadinota Sangshad Sommanona” for the special contribution in biological pest control.**
- **Journalist Union Award for the special contribution in organic food, food security and nutrition.**

for the recognition of his dedication, devotion and special remarkable contribution for the development & extension of Agricultural and nutrition sector and for writing of scientific books & articles.

And finally **In 2012** awarded

one of the highest Agricultural award of the country -the father of the nation `the **BANGABANDHU NATIONAL AWARD'**

- for the special contribution in biological pest management, development of two models (Integrated Homestead Microenvironment Development Model-1,2&3 and Integrated Haor Microenvironment Development Model ), floating vegetable cultivation, crops intensification, invention of two bean genotype & one rice variety etc.

### **Membership of Professional organizations and learned societies**

1. Life member of Bangladesh Entomological Society (BES)
2. Life member of Krishibid Institution Bangladesh (KIB)  
(Highest National Institution for the Agriculturist)
3. Life member of Greater Rajshahi Kalyan Samiti (GRKS)
4. Consultant of Abid Multi- National Co. Ltd (AMNC)  
(One of the Important Non- Governmental Organization)
5. An Adviser of Shadinota Sangshad, Bangladesh (A Social and Cultural Organization)
6. An Adviser and/ or Life Member of Bsangabandhu Parisad and several society, institution and clubs
7. Advisor : Service and Solution Intetnational Ltd., Bangladesh.

### **Name of the other Major activities of DCRMA and others include**

- ICT platform provide information to farmers

- Training of at least 2000 farmers, of which at least 400 women;
- Monitoring of 70% of training and other activities conducted by the officers of DAE and DCRMA
- Preparation of quarterly, annual, and final progress reports that describes emerging and vital lessons learned and preserved for further study.

#### **REFEREES:**

<b>Prof. Dr. Md. Zinnatul Alam</b> Professor, Department of Entomology BSMRAU, Gazipur, Bangladesh. Cell phone:+88 01718-204896	<b>Prof. Dr. Md.Golam Rabbai</b> Professor, Department of Horticulture BAU, Mymensingh, Bangladesh. Cell phone:01711-885790	
--	--	--



**(DR. S M AFSARUZZAMAN)**  
 Additional Director,LR,PRL

Cell phone: +88 0 1771 345464, +88 01923 234569,  
 +8802 8129957, 8110687

E-mail: [safsaruzzaman@yahoo.com](mailto:safsaruzzaman@yahoo.com), [safsaruzzaman@gmail.com](mailto:safsaruzzaman@gmail.com)

Website: [abidfoundation.org/](http://abidfoundation.org/) [smafsaruzzaman.com](http://smafsaruzzaman.com)

### **No. of the books written /edited (18)**

- Pratity.
- Pathikrit
- Concept and review of IPM
- Concept and review of mosquitoes born diseases.
- Drama: Lyaj Katben Can (Why you will cut the tail)
- Crop production in the hilly areas of Bangladesh.
- Sustainable hill agriculture – an alternative to jhume.

- h) Problem and prospects of hilly areas and the modern agricultural technologies.
- i) Two profitable cropping pattern and the system of rice intensification.
- j) Modern Nutrition, Health & Agricultural Technology.
- k) IPM Field Guide
- l) IPM Club Guide
- m) Micro-environment wise homestead development
- n) Agricultural problem prospect and steps to be taken for development of haor region
- o) Integrated Pest Management Nirdeshika
- p) Improved Vegetable Production Technology
- k) Improved production Technology for saline and haor area

**No. of the booklets written /edited (35, some of that are):**

- a) Crop Intensification, cropping pattern, healthy seeds and improved techniques:
  - vii. Rice Intensification Handbook
  - viii. Wheat Intensification Handbook

- ix. Mustard Intensification Handbook
  - x. Maize Intensification Handbook
  - xi. Water Intensification Handbook
  - xii. System of Rice Intensification
- 
- b) IPM Project at a glance
  - c) Management of brinjal fruit and shoot borer
  - d) Management of Hispa
  - e) Management of Brown plant hopper
  - f) Production of healthy seed
  - g) Rice Fish Culture (RFC)
  - h) Ail crop production
  - i)\* Micro-niche wise Homestead development
  - j) Management of rat and related animals
  - k) Method and technique of floating vegetable cultivation
  - l) Ingredients of human foods and their functions
  - m) Excellent nutritious and medicinal plants of Bangladesh.
  - n) ‘Causes and Assessment of malnutrition’
  - o) ‘Nutrients deficiency symptoms in different age group & organs and their causes & remedies’
  - p) ‘Adulteration of chemical and colors in the food’
  - q) Functions of Vitamins and Micro-nutrient’s in the body
  - r) Role of food for the prevention of diseases
  - s) Child health and nutrition management
  - t) The way of production of Sufficient and Essential Nutrients from Homestead only.
  - u) \* Wonderful researches on nutrition, organics & health,
  - v) Bad effects of up taking excess ingredients food, vitamins & minerals
  - w) Child Food Pyramids and Steps to be taken for development of I.Q of children

- x) Safe & Nutritious Food for different human groups:
  - i. Safe & Nutritious Food for the pregnant and lactating mothers.
  - ii. Safe & Nutritious Food for the adolescents and old people.
  - iii. Safe and wonderful medicinal plants for the remedies of Diabetes and Heart diseases.
  - iv. Safe and wonderful medicinal plants for the remedies of Angeriness and Alzheimer.
- y) Crops harvesting techniques, Local/ low cost methods, post harvest techniques for nutrients loss minimization:
  - Crops harvesting techniques & post harvest techniques for minimization of nutrients.
  - Local/ low cost methods & techniques of food preservation.
  - How to solve nutritional problem from safe crop of homestead cultivation
  - Preservation Fruits and vegetable at household level’
    - \* Scientific storage and Nutrients conservation techniques in ‘Fruits and Vegetable.
  - Modern techniques of safe food cultivation and way of in-taking nutrients from organics

### **National Award / Reward:**

Awarded as the best Officer among all the Chittagong Division for Rat Control campaign and **integrated pest management**. During his service three farmers and an institution was awarded **Honorable President Prize for IPM**, improved crop management and tree plantation. His working station was selected for third national prize for successful rat control. The major /National awards are as follows:



- **Shilpacharja Puraskar** by the Shilpacharja Joynul Abedin Srity Parishad, Dhaka, **Bangladesh:**
- **Magazine Journalist Association Sammanana’:**
- **Bijoy Dibas Sammanana’ :**
- **Bhasa Shahid Srity Sammanana’**
- **National Poet Kazi Nazrul Islam Shwarok’**
- **Sher- e- Bangla AK Fazlul Haque Gold Madel ’**
- **Journalist Union Award for the special contribution in organic food, food security and nutrition.**

- for the recognition of his dedication, devotion and special remarkable contribution for the development & extension of Agricultural and nutrition sector and for writing of scientific books & articles.

And finally in 2012 awarded one of the highest National award of the country -the father of the nation `the **BANGABANDHU NATIONAL AGRICULTURE AWARD’**

**\*\*for the special contribution in Organic Agriculture, Integrated Farm Management, and transfer of Agricultural Technologies** especially biological pest management, development of two models (Integrated Homestead Microenvironment Development Model-1, 2 & 3 and Integrated Haor Microenvironment Development Model), organic & floating vegetable cultivation, crops intensification, invention of two bean genotype & one rice variety etc.