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**Effect of Good Agricultural  
Practice (GAP) on  
Production and Post Harvest  
Management of Banana**

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Md. Abdul Alim is the youngest son of Md. Sofor Ali and Mises. Rabea Khatun, born in Pabna District and has been serving as an Assistant Director under Project Planning and Monitoring (PPM) Division at Rural Development Academy (RDA), Bogura.

He did his BSc and MS from Mawlana Bhashani Science and Technology University, Tangail in Food Technology and Nutritional Science with placed First position. He awarded the Vice-Chancellor Gold medal, three times Faculty Merit Scholarship. Mr. Alim has started his career as a Lecturer in the Department of Food Science and Engineering, German University Bangladesh.

He was the Focal Person of SDF funded livelihood enhancement project from Bhutan. He has published six research articles in international journals, four research book publications, one abstract publication in an international conference and one book chapter. He has visited Bhutan and India for attending training and demonstration. Recently he has joined at Mawlana Bhashani Science and Technology University, Tangail as a lecturer.



Shamal Chandra Hawlader has been working in Rural Development Academy (RDA), Bogura since July 2013. He is serving as the Deputy Director in Administration Division of RDA under the Ministry of Local Government, Rural Development and Co-operatives. He did his B.Com (Hons.) and M.Com in Accounting from the National University. He did CA (CC) from Zoha Zaman Kabir Rashid & Co., a reputed CA firm under the Institute of Chartered Accountants of Bangladesh (ICAB). Soon after his joining at RDA, he availed a scholarship and completed his Post Graduate Diploma on Rural Development Management (PGDRDM) from the National Institution of Rural Development and Panchayati Raj (NIRD&PR), Hyderabad, India and honored the Academic Excellence Award 2015-16 "The Best International Student Award and Medal". At present he is performing a number of duties as a faculty member of RDA including research, training, action research and accounts supervision of RDA.



Noor Muhammad is one of the assistant directors serving under the Agricultural Sciences Division at Rural Development Academy (RDA), Bogura since October 23, 2017. He has completed his B.Sc Ag. (Hons.) and MS in Agricultural Extension degree in 2011 and 2014 respectively from Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur securing first position in both. He has awarded University Grant Commission (UGC) Merit Scholarship for academic excellence in 2012. He has awarded National Science and Technology (NST) fellowship from the Ministry of Science and Technology, Bangladesh in 2013. He also has awarded Dean's Merit Scholarship during his undergraduate study for academic excellence in 2009 and 2010.

Mr. Noor has working experience for two years as Research Associate in Department of Agricultural Extension of HSTU, Dinajpur where He has involved in training, action research, project design and planning, and scientific report writing. He has published 11 international and seven national scientific research papers. He has interest in the field of communication and extension services, livelihood development, ICT in agriculture and sustainable agricultural development.

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## Abstract

The current research was an experimental study focuses on the effect of Good Agricultural Practice (GAP) on production and post harvest management of banana. The farmers (n=100) of the study area was cultivated the M. oranta and M. sapientum varieties through traditional method and found that a bunch of banana weight ranges from 9 to 12 kg after harvesting. Panama disease (Fusarium wilt) is the major threats of banana production in these areas and farmers used pesticide, insecticides or chemical to protect from it. However, tricho-compost and tricho-derma fertilizers used in the study plot (n=5) showed around 92% of banana tree was diseases free than uncontrolled plot. It was surprisingly observed that these fertilizers enhanced the water stuffing of the soil and reduced 2-3 irrigation per crop cycle. This practice has increased the weight of a bunch of banana to 13.5 kg. In addition, it was found that the color and appearance of the banana was increased by using polythene bag for bagging. It was also proved that natural ways of ripening (Venna leaf, Billimbi fruit and Apple) were more effective than artificial ripening of banana.

**Keywords:** Banana production, Good Agricultural Practice (GAP), panama diseases, tricho-compost and post harvest management.