Analysis of Food Production and Poverty Reduction of Bangladesh

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18 January 2018

Online at https://mpra.ub.uni-muenchen.de/85653/
MPRA Paper No. 85653, posted 3 April 2018 15:51 UTC
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Abstract

This study aims to investigate the food production and poverty reduction of Bangladesh in brief. Although the country faces various problems for the economic progress since the independent in 1971, in the last forty eight years the increase of food production and poverty reduction of the country became remarkably. Bangladesh is a densely populated developing country in the southern Asia. The Government of Bangladesh is trying efficiently to reduce poverty of the country. In Bangladesh about 20% of the populations still live below the poverty line, heavily undernourished with inadequate access to safe and nutritious food for a healthy life. The data of the study were collected through the secondary sources of the country. In Bangladesh, during 2000 to 2005, income poverty reduced from 48.9% to 40.0%, 2010 to 2016 reduced from 31.50% to 20%, and in 2018 it is expected to reduce in 16%. An attempt has been taken here to show the ways to increase more food production and poverty reduction of the country.

Key words: Food, poverty reduction, inflation, GDP, subsidies in food, economic development.

Introduction

People’s Republic of Bangladesh is a densely populated developing country in the southern Asia and its area is 147,872 km². It is a unitary parliamentary democratic country, and its legislature is Jatiya Sangsad. Its current constitution is formed at 4 November 1972. Dhaka is the capital city of the country. It is a Muslim dominated country. In 2004, Muslim was about 89.5%, Hindu was about 9.6%, other was 0.9%. In 2018, its populations become more than 160 millions. About 70% of the populations live in the rural areas. Agriculture is the main source of income; about 80% of the populations are involved with this sector [Mohajan, 2013a; Food and Agriculture Organization, FAO, 2016; Country Profile, 2018].

All the living organisms need food to survive. Food and nutrition are basic rights of human beings. After food and shelter the people want to develop their economic conditions. Food security is the main problem of every Government of Bangladesh (GoB) [Food and Agriculture Organization, FAO, 2017; Bangladesh Development Forum, BDF, 2018]. The development of Bangladesh is defying for various odds ranging, such as, devastating disaster, dense population;
non-advancement of life expectancy, under 5 mortality, fertility rate, enrolment of girls, immunization, etc. [Sen, 2013].

Food for all the citizens is a basic right asserted by the National Constitution of Bangladesh. In Bangladesh the sufficient production, distribution, and availability of essential food items have always been a cause for anxiety for successive Governments, international donor organizations, and socio-economic researchers. Rice is the staple food of Bangladesh, and among the 94% of all food grains produced annually is rice. About 40% of the total national employment and 48% of rural employment is generated from the rice sector. The rural development is an essential prerequisite for the formulation and implementation of an effective strategy for increasing food security, reducing poverty, and promoting overall economic growth [Country Profile, 2018; Bangladesh Bureau of Statistics, BBS, 2018].

Food security is a main target of the GoB. The Government also imposes subsidies in food, agriculture, and agricultural materials to improve the food production. But, these attempts will not provide permanent solution to food security, and economic development of the citizens [Mohajan, 2013b; Ministry of Food of Bangladesh, 2018]. The Agro Processing sector in Bangladesh is currently valued at $2.2 billion, and grew on average 7.7% per annum between fiscal years 2004-05 and 2010-11 [Agribusiness for Trade Competitiveness, 2016].

Bangladesh has three seasons of rice production namely Aus (summer), Aman (winter) and Boro (spring). The aggregated production of Aus (2.6 million metric tons, MT), Aman (13.2 million MT), and Boro (19.8 million MT) paddies has been produced a total of 36.06 million MT in FY 2016 by using total 11.77 million hectares of land [Lagos & Hossain, 2016; FPMU, 2016].

Bangladesh can reasonably desire to become a middle-income country by 2020, which require a sustained 7.5% annual gross domestic product (GDP) growth or more. To achieve this, Bangladesh will need a series of structural changes to ensure a more rapid, sustained, and employment-generating growth. Bangladesh is also one of the most vulnerable countries to weather variability and natural disasters [Ministry of Food of Bangladesh, 2015].

According to the Household Income Expenditure Survey (HIES) the calorie intake decreased to 2,238.5 Kcal/capita/day in 2005 from 2,263 Kcal/capita/day in 2000; whereas cereals which is one of the main source of calorie intake decreased to 469.2 gm/capita/day from 486.7 gm/capita/day [Bangladesh Bureau of Statistics, BBS, 2017]. The present Government has targeted to reduce poverty rate to 15% by 2021 [Country Profile, 2018].

Planning and strategic framework of both FAO and the GoB are as follows [FAO, 2014]:

- Reduction of poverty and enhance food security and nutrition.
- Enhancement of agricultural productivity through diversification, sustainable management of natural resources, use of quality inputs and mechanization.
- Use improved technology generation and adaptation through better production.
- Improvement of market linkages, value addition, and quality and safety of the food system.
- Increase resilience of communities to withstand ‘shocks’ such as, natural disasters, health threats, and other risks to livelihoods.
Literature Review

Mir Khaled Iqbal Chowdhury, Sherin Fatima Rumi, and Md. Mushfiqur Rahman have stressed on the increase of the production of Boro rice in Bangladesh to achieve self-sufficiency of food-grain production [Chowdhury et al., 2013]. Dayal Talukder and Love Chile have examined the characteristics of rice cultivation and rural rice market in the post-trade-liberalization era [Talukder & Chile, 2015]. Md. Zohurul Islam, Ratna Begum, Sajia Sharmin, and Akteruzzaman Khan have analyzed the profitability, constraints and factors that affect rice production in coastal area of Bangladesh. They have used Cobb-Douglas production function in their study [Islam et al., 2017]. M. Razu Ahmed, Khan Rubayet Rahaman, Aaron Kok, and Quazi K. Hassan have explained the impact of the 2017 flash flood (that initiated on 27 March 2017) on Boro rice using multi-temporal Landsat-8 OLI and MODIS data. Initially, they used Landsat-8 OLI data for mapping the damages. To show the extent of the damaged Boro area, they have utilized MODIS data as their 16-day composites provided cloud free information [Ahmed et al., 2017].

Abeda Sultana has tried to find the problems and prospects of rice marketing in Bangladesh. She has shown that there is a comparative advantage in the production of high yielding rice in Bangladesh, but its marketing system is not suitable to the small farmers to bring fair price. She has identified the major causes of food price hike are natural disaster, inadequate supply of food grain in the market, less production, hoarding by traders and creating artificial food crisis in the market, problems of communication system, and increase of middlemen in the market to reach food grain to consumers [Sultana, 2012]. Arifur Rahman, Al Mamun, Nabihatul Afrooz, Subrata Howlader, and A. B. M. Qudrot-E-Khuda have identified three stages of rice processing; parboiling, drying, and milling [Rahman et al., 2017]. Fahmida Dil Farzana, Ahmed Shafiqur Rahman, Sabiha Sultana, Mohammad Jyoti Raihan, Md Ahshanul Haque, Jillian L. Waid, Nuzhat Choudhury, and Tahmeed Ahmed have used data from food security and nutrition surveillance project that collects information from a nationally representative sample in Bangladesh on coping behaviors associated with household food insecurity. They have examined the demographic and socio-economic characteristics of the food insecure households which define their propensity towards adaptation of different types of coping strategies [Farzana et al., 2017].

Susmita Dasgupta, Md. Moqbul Hossain, Mainul Huq, and David Wheeler have used econometric analysis to predict the impact of climate induced increases in soil salinity on high yielding variety rice production in coastal area of Bangladesh [Dasgupta et al. 2017]. Kamrul Hasan, Abu Habib, Md. Abdullah, Dipanwita Bhattacharjee, and Safiul Islam Afrad have implemented a project in six Upazilas under six districts of Rajshahi and Rangpur divisions in Bangladesh to assess the impact of Alternate Wetting and Drying (AWD) technique on rice production. They have selected a total of 108 farmers as the participant of this study included Project farmers/AWD technique followers, total 54, and non-project farmers/conventional practice followers, total 54 [Hasan et al., 2016]. Marites Tiongco and Mahabub Hossain have investigated the relationship between adoption of modern rice varieties and rice varietal diversity on household farms in Bangladesh [Tiongco & Hossain, 2015]. A. H. M. Monzurul Mamun, Bikash Chandra Ghosh, and S. M. Rayhanul Islam have examined the trend of three main climatic variables; temperature, rainfall, and relative humidity, for Rajshahi, Bangladesh by using the time series data for the 1972-2010 period, and assesses the relationship between the
variables, and the yield of three major rice crops; Aus, Aman, and Boro [Mamun et al., 2015]. Md. Tahidur Rahman has shown that in 2017, agriculture remains the lifeblood for the economy of Bangladesh, and plays as a catalyst for sustainable development and growth of the country [Rahman, 2017].

Rahman et al. [2016] has forecasted on area and production of Aus rice in Bangladesh. They have used Box-Jenkins Autoregressive Integrated Moving Average (ARIMA) time-series methodology to predict this. Jayanta Kumar Basak, M. Ashraf Ali, Md. Nazrul Islam, and Md. Abdur Rashid have discussed the effect of climate change on yield of two varieties of Boro rice has been assessed using the DSSAT modeling system. They have provided results of BR3 and BR14 Boro varieties for the years 2008, 2030, 2050, and 2070 for 12 districts of Bangladesh [Basak et al., 2010]. Udaya Sekhar Nagothu, Attila Nemes, Jatish Chandra Biswas, and Motaleb H. Sarker have contributed to the development of an integrated adaptation framework in order to sustain and improve rice production under different climate change scenarios in Bangladesh [Nagothu et al., 2014]. Kamala Gurung, Humnath Bhandari, and Thelma Paris have examines the transformation from rice farming to commercial aquaculture, and its implications for gender roles and relations, women’s access to and control over resources, household food security, and livelihood. They have collected primary data from 400 sample households located across 10 villages in northern and southern parts of Bangladesh [Gurung et al., 2016].

Shamsul Alam stresses on resource mobilization, tapping population momentum, managing unplanned urbanization, natural disasters and climate change, utilization of resources, skill development and quality education, improving competitiveness, governance, taming inequality and regional disparity are major problems of Bangladesh. He emphasizes that the country can move ahead with increased investment in human development, overcoming infrastructure gap, ensuring quality education and investment in research, and innovation, building strong institutions and raising female labor force participation, export diversification, etc. [Alam, 2018]. Elena Gurgu and Raluca Zorzoliu have highlighted Romania’s role in the current international economic context. They have analyzed the state of the Romanian economy referring to its main macroeconomic indicators and propose ways, and measures to revive the economy of Romania [Gurgu & Zorzoliu, 2016]. Doina Dascalu has analyzed of public debt, in terms of sustainability and vulnerability indicators, under a functioning market economy. She has indicated that to achieve sustainable levels of public debt, the European Union Member States are required to establish and accomplish medium term strategic budgetary goals to ensure a downward trend in public debt [Dascalu, 2016].

Objectives of the Study

This study heartily wishes to focus on the food insecurity and poverty reduction of Bangladesh. Therefore, we have emphasized on the food sector of the country. This study will be carried out under the following specific objectives:

- To study the impacts of the people during the abnormal food price hike.
- To study the effect of poverty and economic situation of food price inflation.
- To know the role of Government and social conscious people to increase food production and modernization of the agriculture sector.
Methodology of the Study

The data are collected to achieve the result for the purpose and scope of this study. In this study secondary data are used to enrich the article. The secondary data are collected through different sources such as: journals, newspapers, magazines, thesis, census reports, addresses delivered by Government officials, press releases, seminar, conferences, NGOs reports, and electronic resources.

Food Security in Bangladesh

In Bangladesh consumption of only rice is about 400 gm/capita/day. Wheat is the second food grain, followed by maize which is in the third position. In 1970s, about 70% people of Bangladesh were below the poverty line in relation to food consumption, and at present it is come down to 20% in 2016, but still it is far from being food secure. More than half of the children of Bangladesh are underweight, which is obviously the signal of malnutrition of the future generation. According to the latest Household Income and Expenditure Survey 2010 [HIES, 2016], about one-fifth people of Bangladesh are living below the national poverty line. Population of Bangladesh below the poverty line in 2008, 2010, and 2016 respectively were 36.3, 31.51, and 20% [Country Profile, 2016].

The rise of food price has a severe impact over the marginalized people. The prices of rice in Bangladesh were highly volatile between 2003 and 2009, and the gross income of the poor decreased by 36.7% due to surge of food items. In Bangladesh food prices are increased by 72% over a period of only 10 months from June 2007 to April 2008 at the backdrop of global food prices hike. This rising inflation has become an alarming threat to the poor and middle class people from all segments of the society. According to the World Bank, about 4 million people of Bangladesh have been pushed below the poverty line due to abnormal rise in food prices [Mohajan, 2013b].

In Bangladesh 70% of total population live in the rural areas and 80% of these villagers are directly related to agriculture. The sector employs about 51% of the total labor force of the country, and provides over 90% of the rural employment [BBS, 2017]. Food grain production in 2005 was 27.26 million metric ton (mMT), in the FY 2006–07 was 28.05 mMT, in the FY 2007–08 was 29.54 mMT [Ahmed et al., 2009].

Over the past three decades, rapid expansion of green revolution technologies, irrigation in dry season, Government subsidies in agriculture, improved seeds, increase of arable land, appropriate pesticides use, and sufficient fertilizer use; have led to a rapid increase in rice and wheat production in Bangladesh [Mohajan, 2013a].

Effects of Food Price Inflation

The food price inflation has a severe impact over the marginalized people of Bangladesh. Food inflation leaves a harmful impact on the purchasing power when the per capita GDP does not correspond with inflation. The International Monetary Fund (IMF) warned Bangladesh that excess liquidity and resurgent international commodity and food prices might push inflation to
double-digit levels by year-end of 2009 [The Daily Star, 30 October 2009]. Bangladesh has already experienced a double-digit food inflation rate on point-to-point basis since July 2007.

Rice is the staple food of Bangladesh, and wheat is in the second position. Change in prices of two food stuffs affects the people most adversely than changes in prices of any other commodity. Persistent high inflation may unleash forces that jeopardize macroeconomic stability and economic growth. Between September 2009 and September 2010, the nominal rice and wheat prices increased by 63%, and 33% respectively. The corresponding real prices also have risen by 53% and 24%, with a substantial rate of increase in rice prices [Bangladesh Economic Update, 2011]. In Bangladesh food prices continued to increase and drove up the overall inflation rate in FY 2010–11. At the end of 2017 and in the beginning of 2018 price of rice has increased record due to irregular flood. In 2017 and 2018, more than one million Rohingya Muslim refugees took shelter in Bangladesh from Myanmar due to non-humanitarian oppression of the army and civilians of that country. The GoB is providing food, clothes, treatment, and shelter to these helpless people. These additional one million people became burden to the economy of the country [Country Profile, 2018; Mohajan, 2018].

The inflation in June 2011 was 10.2% compared to 8.7% in June 2010, and food inflation rate was higher than the general inflation rate. In 2012, inflation has reached to about 10.92%. Higher inflation in the country is due to rising commodity prices in the world market, and for the higher spending than the budget of the Government. The inflationary remain unchanged despite a bumper production of rice, potato, fruits, and vegetables due to the borrowing of the Government from the banks [Country Profile, 2013].

During the last quarter of the year 2010, the average global food price index increased by 2.93% whereas the average local food price of Bangladesh increased by 0.70%, and the general inflation increased by 0.53%. General, food, and non-food inflation rate in Bangladesh during FY 2005 to FY 2011 are given in table 1 [BBS, 2011].

<table>
<thead>
<tr>
<th>Year</th>
<th>General inflation rate (%)</th>
<th>Food inflation rate (%)</th>
<th>Non-food inflation rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>6.48</td>
<td>7.91</td>
<td>4.33</td>
</tr>
<tr>
<td>2006</td>
<td>7.16</td>
<td>7.76</td>
<td>6.4</td>
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<tr>
<td>2007</td>
<td>7.2</td>
<td>8.11</td>
<td>5.9</td>
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<tr>
<td>2008</td>
<td>10.06</td>
<td>11.43</td>
<td>7.35</td>
</tr>
<tr>
<td>2009</td>
<td>5.51</td>
<td>7.9</td>
<td>4.2</td>
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<tr>
<td>2010</td>
<td>7.52</td>
<td>9.9</td>
<td>3.9</td>
</tr>
<tr>
<td>2011</td>
<td>9.76</td>
<td>13.9</td>
<td>4.32</td>
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</tbody>
</table>

**Table 1:** General, food and non-food inflation rate in Bangladesh during FY 2005 to FY 2011.

Source: BBS [2011].

The continued increase in food prices has suggested due to global crisis, and increasing political and economical instability; particularly in the under developed and developing countries. The price that drastically increased in 2007 had faced a downward trend after June 2008, but from 2009 the price has started to rise again [Bangladesh Economic Update, 2011].
Food and Nutritional Scenario

In Bangladesh, food production data are collected by BBS, Bangladesh Rice Research Institute (BRRI), Bangladesh Agricultural Research Institute (BARI), Department of Agriculture Extension (DAE), Ministry of Food and Ministry of Agriculture on a regular basis. BBS is the only authorized body under Government structure to publish production data. According to their collected data, in the last decade production of rice has increased, vegetable production becomes almost doubled, potato production increases 2.5 fold, fish production has increased due to increase in inland fishery, meat production has increased, superseding the rate of increase in population, egg, and milk production also increased in parallel. On the other hand, total production of pulses (one of the major sources of protein for the poor), oilseeds, and fruits has gone down. The market demand on pulses, edible oils, fruits, and spices are fulfilled mainly by the import. The net production availability of sweeteners and spices remained almost unchanged during the last decade. But, the country still is deficient in production of all the non-cereal food items to provide balanced food for all. Meat and fishes are imported for the fulfillment of protein deficiency [Mohajan, 2013b].

During the independence in 1971, Aman was the major food crop, which was the dominant source of total rice production. Structure of rice production in Bangladesh has remarkably changed over time. In 2013, Aman rice occupies 50% of total rice area and contributes 38% of total production, Boro contributes about 41% of total rice area and contributes 56% of total rice production in Bangladesh, and Aus rice supplies about 9% of total rice area and 6% of rice production [Mohajan, 2013b].

The development of cultivation system, inclusion of non-cultivable land in cultivation, increased production of rice thrice in a year, invention of new variety of species and expansion of irrigation system, increased the production of rice over time [BBS, 2013].

In Bangladesh there are three types of poor as follows [Khuda, 2011]:

- The chronic poor; those who are poor even during good times, because they have limited access to assets and income to manage risks, and even small reductions in their assets and income can have serious adverse consequences for them.
- The transient poor; those who live close to the poverty line and could fall into poverty when an earning individual household dies or the economy as a whole faces hardships.
- Other vulnerable population; the groups for whom general stability and prosperity alone would not be sufficient, such as, the disabled and divorced/separated/widowed women without access to any regular employment or find no help of others.

Bangladesh has obtained food through domestic production, imports, and food aid. In Bangladesh the first two sources have increased, but the third has decreased [Bangladesh Economy, 2017]. In 2016, the GoB demands that the country is self-dependent in food production, and is exporting rice [Country Profile, 2016]. The poverty of Bangladesh is not decreasing readily due to low income of most of the populations, recurrent natural calamities, increase of population, and increasing international prices of food commodities. The cereal food production (including maize) was 27.35 mMTs in 2004–05. Unfortunately food aid declines from about 600,000 MT in 1990s to about 300,000 MT in 2004 [BBS, 2013].
Access to Food in Bangladesh

Food access is correlated with food availability. Per capita food availability is actually higher than the per capita food intake. In recent years the rapidly increasing food price has made it difficult for the poor, low, and middle income group to have access to food. In 2005, per capita food intake came down to 469.2 gm/capita/day from 486.7 gm/capita/day in 2000, over the same period food inflation increased to 7.91% from 1.38%. During the food price hike the burden increases for the lower income groups as these groups spend a larger share of their budget on food. The individuals who have irregular income from daily wage labor and lacking productive assets, such as, day laborers, fishermen, vendors and beggars, cannot access to the food perfectly. The children, disabled, and pregnant and lactating women face the greatest nutritional risk during the food price increase [Ahmed et al., 2009].

Victims of Food Price Hike

The poorest citizens adversely affected during the food price soar, because the share of food expenditure is the highest for them. The conditions of the poor of Bangladesh during the food price inflation are as follows [Mohajan, 2013b]:

- Day laborers, female-headed households, especially widow/divorced, separated/abandoned females; people with fixed and low income, large families with few earning members or only earning member, small and marginalized farmers who are net buyers of staple, small job holders in urban areas, and self-employed marginal people are severely affected due to the increase of food price.
- Extremely poor people who live in urban slums areas, such as, small shop owners, vendors on footpaths, beggars, garments workers suffer severely during the food price hike. On the other hand, some people of slum areas, such as, rickshaw and van pullers, CNG (compressed natural gas) taxi and cab drivers, did not suffer much; as they charged higher fare to people, and earn more to face the food price hike efficiently.
- During the food price increase some non-social activities and crimes, such as, sex working, begging, smuggling, petty theft, drug trafficking, etc., increase in the society.
- Sometimes children, women, and even elderly people are engaged in force work to mitigate hunger.
- In most families of the urban areas reduce the buying of beef, mutton, chicken, milk and milk products, fish, dry fish, and lentil. Because, they have to spend half or more than half of their household incomes to buy food grains to relieve from starvation, and compel to avoid these costly food items. As a result these families suffer from malnutrition in the long run.
- Food price hike also affects the lower middle class families, because they cannot spend more for food; as their income is limited, and they cannot start begging due to their social status. They did not find loan from any source to face the economic crisis. Government or NGOs provide them no aid, as they are not extremely poor. Some of them have wealthy relatives, but in most cases they are completely ignored by the rich relatives. Sometimes they compel to sell their only assets, such as, farmland, livestock, rickshaw-vans, etc. Their schooling children have to start child labor. Eventually they become extremely poor, and cannot escape from the poverty cycle.
Four areas in Bangladesh are identified as most vulnerable during the food price hike. These are, Monga (north-west part), Haor (north-central and parts of north-east), coastal river erosion (south), and the Chittagong Hill Tracts (south-east). Monga prone districts are Kurigram, Lalmonirhat, Nilphamari, Rangpur, Gaibandha, Bogra, and Serajganj. The typical characteristics of the food insecurity prone districts are as follows [Ahmed et al., 2009]:

- Crops are in the field waiting to be harvested having no employments in the agricultural fields.
- The household level food stock is mostly consumed amid inadequate supply of food grain in the market.
- The price of rice in the market is very high, while the marginal farmers and the laborers run out of food and cash.

**Poverty Reduction in Bangladesh**

In Bangladesh, during 2000 to 2005, income poverty reduced from 48.9% to 40.0% [Bangladesh Economic Review, BER, 2008], 2005 to 2010 reduced from 40% to 31.50% [HIES, 2010], and 2010 to 2016 reduced from 31.50% to 20% [Country Profile, 2016]. The present Government has targeted to reduce poverty rate to 16% by 2021. The incident of poverty, using Cost of Basic Needs (CBN) method, at national level declined from 58.50% in 1983 to 48.90% in 2000 based on upper poverty line. During this period, the compound poverty reduction rate per year is recorded at 1.8%.

When most of the countries faced the effects of global economic crises, Bangladesh has acquired higher GDP growth rates compared to the previous years. In 2012–13 the GDP of Bangladesh reached 6%, which is close to the developing countries (China and India are estimated to have rates of 8.8% and 7.3% respectively). The real GDPs of Bangladesh from 2010 to 2017 are given in table 2 [Country Profile, 2018].

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<tbody>
<tr>
<td>Real GDP growth rate (%)</td>
<td>6</td>
<td>6.5</td>
<td>6.1</td>
<td>6.6</td>
<td>6.3</td>
<td>6.9</td>
<td>7.0</td>
<td>7.1</td>
</tr>
</tbody>
</table>

**Table 2:** Real GDP growth rate of Bangladesh in percent. Source: Country Profile [2018].

The foreign currency reserves of Bangladesh have increased to $10.19 billion in April 2012 after the first installment of the IMF loan was disbursed under the Extended Credit Facility (ECF) arrangement. In 2016, the foreign currency reserves reached to $29 billion and expected to increase $31 billion by the end of 2018.

On the other hand, the tax revenues exceeded a record about 10% of GDP in FY 2011. Borrowing of the Government became more than doubled over the 2010 to 2011 leading to concerns of higher inflation in the economy, and due to a large spending on subsidy in the power and energy sectors, and on social safety net coverage. The loans to the Government from the commercial banks and central bank have reached about $1.96 billion in FY 2011. From the
commercial banks alone, the Government has borrowed around $1.3 billion. The Government borrowing created various problems for the economy as follows [Mohajan, 2013a]:

- The increased borrowing may force up interest rates and crowd out private sector investment in the country.
- If this borrowing trend continues, the Government may need to increase the tax burden in the long run.
- The increase in national debt would mean that the annual interest payments will rise.

**Recommendations and Suggestions**

Rice is staple food of Bangladesh. The GoB should take various steps to produce more rice to feed more than 160 million people. The Government also needs to store sufficient foods to face natural calamities. Production of new varieties of genetically modified crops should be produced to increase production of food. The poor spend more than half of their earnings for food. Sometimes they only can buy starch rich foods, but cannot buy enough protein rich foods, such as, meat, fish, milk etc. due to higher cost of these items. Hence, the Government must take necessary steps to produce enough dairy, poultry, and hatchery foods to fulfill the requirements of protein to all the citizens. The Government also increases its budget in research in agriculture, which will help in long-term food insecurity of the country. The subsidies in food must be decreased step by step for the long-term benefit of the agriculture sector. The dependency on food aid must be decreased to make the country self-sufficient in food in future. Then the country can take steps to export food by producing more.

The country is burden with large population, and most of the populations are illiterate and unskilled. Every year the Government has to spend more fortune to feed these populations. As a result other economic and non-economic development programs are not running in full swaying. The GoB should stress on family planning to decrease the rate of population escalation. The child marriage is a social fever in Bangladesh. The Government and NGOs must be active to stop child marriage in every stage of the society. The Government can stop it by the application of the marriage rules strictly in the society. The Government should take necessary steps of safely return of the Rohinga refugees of Myanmar to their own motherland.

The Government also increases budget in education, as the educated population will progress the country economically. It also takes various steps for free medical facilities to make the healthy nation in the country. Immunization projects are worth of praising in Bangladesh. Government should be spent more in health and nutrition projects, especially for mother and child nutrition.

Political unrest is a common problem of the country. The Government and citizens must be concerned to decrease political instability in the country. Political unrest reduces foreign direct investment, and destructs both public and private assets. As a result the poor suffer much from political unrest. Government must be strict to eradicate corruptions from the society to develop the country economically.
Conclusions

In this study we have stressed more food production for the reduction of the poverty of the country. Bangladesh is one of the densely populated developing countries of the world. Budget in family planning must be increased to control population growth. Application of laws against child marriage must be strict to build a healthy and safety mother community. The GoB should apply the modern agriculture technologies to develop the country in agriculture. Natural calamities are also obstacles of the economic development, and Government should increase employment programs instead of relief for the natural disaster affected people. The Government must reduce the political instability and increase continuous energy supply. The over food price inflation needs to be controlled for food security of the destitute. The Government must increase budget in research and development projects of food and agriculture sector. Irrigation system must be increased to product more food in dry season and electricity supply must be increased in irrigation sector. The Government should take steps to distribute solar pumps with low prices for irrigation. Modern and new technologies must apply for storing rainwater for the dry season. New and genetically modified crop production must be increased to make country self sufficient in food sector.

References


