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International cooperation on growing alternative and health foods among the CACCI member countries

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I am *Muhammed Abdus Salam*, the founder of the Bangladesh Organic Products Manufacturers Association (BOPMA) which is the national umbrella organization for the organic sector and is the apex body of the Organic Business communities, established in 2008 aiming to resume -

- (1) Safe and Sustainable Agriculture**
 - (2) Healthy Environment**
 - (3) Food & Nutrition Safety**
 - (4) Food & Nutrition Security.**
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Short brief about Bangladesh : Area is 147570 skm, Population is over 160 million, GDP growth rate is 7.86%, Contribution to GDP from Agriculture sector is 14.10%, from Industry sector is 33.71%, from Service sector is 52.18%, Total Export is about US\$ 36.67 billion, Total import is about US\$ 58.87 billion, Workers' remittance is about US\$ 15 billion, Foreign reserve is about US\$ 32.93 billion, investment contribution to GDP is 31.5%




**1 BABY DIES IN EVERY 5 – 10 SECONDS
DUE TO HUNGER AND MALNUTRITION
GLOBALLY / FAO REPORT, 2018**



500 MILLION PEOPLE ARE IN HUNGER IN THE ASIA PACIFIC REGION / FAO REPORT, 2018




▶ **But therefore !!!!!!!!!**

- ▶ We waste lot of foods at our dining table and kitchen
 - ▶ This year we destroyed about 3 million tons of potato
 - ▶ Every year we destroy thousands of tons of vegetables
 - ▶ This year we destroyed thousands of tons of fruits
 - ▶ Our main food is tobacco, tea, rice, meat and fish,
 - ▶ We eat for taste not for nutrition , facing lot of troubles
 - ▶ We destroy abt 4000 ltrs of water producing 1kg rice
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Probable Solutions :

The following measures can be taken for international cooperation on growing alternative and health foods among the CACCI member countries



Sugar Beet can turn the CACCI member countries and we should start sugar beet production immediately, because -



Sugar cane contains 8-12% sugar while Sugar beet contains 14-18% sugar

Sugar Cane needs 14 months while Sugar beet needs 5 months

Sugar cane yielding is about 42 tons / hectare while Sugar beet yielding is about 90 tons / hectare

Sugar cane leaf and bagasse are used as fuel while Sugar beet leaf is green manure and pulp is the best animal feed

We can establish many food and feed industries among the CACCI member countries based on Sugar Beet



Tomato and tomato foods production: Only Japan imports about 120000 tons of tomato paste yearly. Thailand imports fresh tomato from China and from Vietnam. European many countries import thousands of tons of tomato paste from some countries. We can export thousands of tons of tomato and tomato paste in the global markets.



Sweet potato is hated and it is treated as poor men's food in Bangladesh and finally we have stopped production almost. But this highly nutritious crop is treated as 1st class food in many countries and we can export it easily. We can develop national economy and public health through producing sweet potato



Another most neglected and hated food is Foxtail Millet. But it is Highly nutritious, non-glutinous, non-acid forming, versatile, most digestible and soothing food. We are resuming this highly nutritious, beneficial and medicinal crop producing on loamy, infertile and on sandy soil.



Buckwheat is a gluten free nutritious cereal grain. It contains about all nutrients of cereals, meat, fish, egg, milk, fruits and vegetables. Due to ignorance we stopped producing this important crop about 40 years before. It can be produced on loamy, sandy and on infertile soil. No need care, fertilizer and irrigation. We are resuming this crop.



100gms soybean is enough for protein and some other essential nutrients for a human body daily. It contains 46% protein, 18% unsaturated fat, 20% carbohydrate, 5% mineral, 4% fiber that supplements to meat, fish, milk, eggs etc. We can remove poverty, malnutrition and diseases through soybean.



Oat is the healthiest grain on earth. It is a gluten-free whole grain and a great source of important vitamins, minerals, fiber and antioxidants. We are resuming it for our own well-being.



Peanut is very cheap in Bangladesh. It contains monounsaturated fat, vitamin E, niacin, foliate, protein, manganese and antioxidant. It is good for heart-health and potentially controls stroke, protects colon cancer, prevents gallstones, protects aging, lowers weight etc.



We grow Cashew in the hilly districts in Bangladesh. We produced 600 tons this year and our production is increasing at geometrically every year. Our target is to produce 1 million tons by 2030 which export value will be about US\$ 1600 million.




Great Moringa is a medicinal food. It is very rich in antioxidants and bioactive plant compounds. It contains high amount of Protein, Vitamins, Minerals, Iron, Riboflavin, Magnesium etc. We can produce it more and can establish many industries based on moringa. It is absolutely a dietary supplements for many diseases.



The entrepreneurs can establish numbers of industries among the CACCI member countries where they can process mango, banana, pineapple, jackfruit, guava, olive, lemon, coconut etc. Thousands of people will get jobs, farmers and growers will get money and the nations will get nutrition.



Resumption of Organic Agriculture: Organic Agriculture is safe, cheaper and more productive. But so called modern agriculture technologies are toxic, expensive and 30% responsible for Global Warming.






Land tilling emitting Green House Gas



Land tilling emitting soil nutrients


Native variety seeds :

The native variety seeds of all crops (cereals, vegetables and fruits) are more nutritious, strong, resistant, flavour, more productivity and healthy and they need less fertilizer, less pesticide, less water and less care.



■ **Crops diversification :**

The farmers can replace and can produce more than 2 million tons of rice, .5 million tons of wheat or millet or other cereal crops, .3 million tons of soybean or mungbean or about 3 million tons of potato or sweet potato or thousands of tons of vegetables on existing tobacco cultivation lands.






A Nicotine (Tobacco) field



A Protein (Soybean) field

■ **Food habit diversification :**

We can ensure Food Safety and Food Security through changing, diversifying our food habits. We can replace maize, millets, buckwheat, potato, sweet potato, cassava, jackfruits (about 150 million tons), seafoods etc. to rice and wheat as carbohydrate source. We can replace soybean, mungbean and other beans to meat, fish and eggs as protein source. We can establish healthiest and happiest nations among the CACCI member countries.






Jackfruits, world's largest fruit



Buckwheat, better as food and diet

- **Resumption of Fisheries and Livestock** : The rural and urban women and men, farmers / nation can restart petting / culturing fisheries and livestock alleviating poverty, hunger, malnutrition and diseases from the CACCI member countries and for their well-being.
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Domestic animals




Sweet water fishes



Native chicken

- **Utilization of manpower properly:**

Millions of people are passing lazy time and millions of people are involved in ill and non productive jobs / activities as shown in the following pictures. But they can work in the agriculture or at the agro based industries and can contribute producing more crops and products for the total well-being.





**Watching TV, having
Tea, Pan & Cigarette
at a village Tea-stall**



**The rickshaw pullers
are involved in an ill
and non productive job
and making us lazy**

Finally humble request Stopping food wastage :

Thousands of tons of foods can be saved from wasting and misusing easily which can be used for other nations and we can make global unity and friendship for the total well-being of the humanity.



Food wastage



Food wastage

Thank You

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