tries accounted for 21050

which is 88.62 per cent of total establishments. The total number of persons engaged in

the manufacturing sector is

1,175,313 of which the share

of the small industries stood

around 75 per cent. The FFYP

reveals that in 1981-82 the

Wheat—a Less Risky Crop A

W HEAT consumption has been growing yearly at a rate of over three per cent in Bangladesh. Wheat used to be considered an urban food. However, with the increasing number of village bakeries and the demand for wheat products as a 'fast' food from anyone as business persons to rickshawalas, wheat consumption will probably continue to increase. Many South Asian and Southeast Asian countries have experienced similar trends.

Over two million wheat growers in Bangladesh currently produce from 1.1 to 1.4 million metric tons. Since demand for wheat in Bangladesh is around 2.5 million metric tons, the remaining 1 to 1.4 million tons must be imported. Food and donors currently contribute close to one million metric tons with the remainder imported commercially at subsidized prices. Recent Paris Aid meeting discussions indicate that food aid will be lower in the future because of lower development assistance spending, stronger world wheat prices, and reduced availability (e. g. the failure of wheat crops in Australia, Ukraine). Wheat imports are unlikely this year considering that current wheat prices in Bangladesh are at par with world prices, making imports by Craig A Meisner

recent years, area and production appear to have resumed an upward trend, with wheat being grown predominantly in more sandy and higher elevated plots (unsuited for boro rice production). Recent studies (IFPRI-CIMMYT) have shown that wheat has a comparative advantage to boro rice in some areas, particularly, those with sandier soils and

higher elevations.

Why is wheat an attractive crop, even if yields are lower than boro rice? The answer has to do with the riskiness of boro rice. A drought of huge proportions currently exists in Northern Bangladesh that is hampering the boro rice growers' ability to keep their boro fields irrigated. Part of the reason was the expansion of boro area around the command area of deep or shallow tubewells which were unable to keep up the water supply with the expanded demand during this drought. Secondly, the expansion of boro rice area included fields whose soil types were sandier, requiring greater water (and due to the leaching of nitrogen, more urea fertiliz-

Wheat requires very little water in comparison to boro rice. Three irrigations are recommended, but two are usually adequate. Those two are re-

May that can cause damage to boro rice fields locally. Wheat vields have been stable over the years, with weather not contributing to any devastating

production declines. In contrast to this year's drought and its effects on boro rice, wheat farmers already have harvested a bumper crop while many growers are still not certain about their boro rice harvest. Wheat as a less risky crop should be encouraged by the government in the following ways:

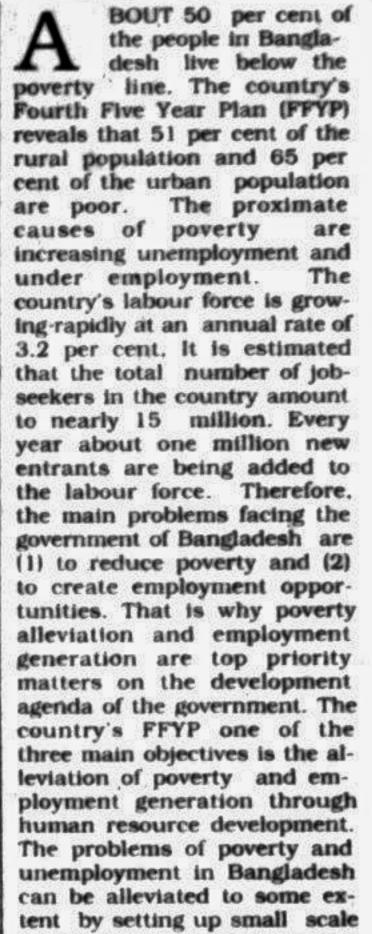
· Consider purchasing locally produced rice/wheat to use in Food for Work projects.

· Ensure that Food for Work wheat does not enter the market at the same time as wheat

· Strengthen the transfer of technology by giving a 'thrust' in wheat production by the Department of Agriculture Extension in cooperation with the Wheat Research Centre of BARI for the 1995/96 season Continue and even expand

the support of the internationally renowned Bangladesh wheat scientists at the Wheat Research Centre of the Bangladesh Agrieulture Research Institute (BARI)

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industries (SSIs) as it has the

large scope for generating em-

ployment opportunities, aug-

menting income of the people

related to it and accelerating

the process of industrializa-Since the early seventies. Bangladesh has recognised the crucial role of SSIs in the process of industrialization. The first industrial policy of the country recognised the role of SSIs in accelerating the pace of industrial development. The industrial policy of 1986 stressed the importance of SSIs in the national economy and provided various facilities and incentives like subsidized industrial plots. reduction of duty on imported machinery, partial or full exemption of sales tax, concessional rate of interest and simplification of the credit delivery system. The Third Five Year Plans (TFYP) one of the most important objective was to crate new opportunities for productive, employment particularly by dispersal of small industries and development of rural and cottage industries. The main emphasis of the FFYP is on poverty alleviation by elimination of unemployment specially for the rural people including women and the landless, and the promotion of sub contracting linkages between small and large

Development _____ Role of Small-scale Industries in Economic Development

by Md Meftaur Rahman

Existing literature does not

comprehensively examine the

SSIs of Bangladesh. It is

therefore difficult to make a

proper estimate of SSIs impact

on the economy of Bangladesh.

However, it is true that SSIs

ioned (R.K. Vepa).

industries. Accordingly, adequate protection, incentives and facilities were provided to the products of SSIs through tariff rationalization and appropriate fiscal measures.

The investment target for the small industries sector during the first, third and fourth five year plans were Tk 121.6 crores, Tk 850.00 crores and Tk 1292 crores respectively. However, in practice, the share of SSIs subsector in the total outlay has been far less than the share of the large and medium scale industries. It can be said that SSIs have not received government patronage commensurate with their contributions to national development. in other words, the overall industrialization policies pursued went largely in favour of the large scale industries and resulted in a sluggish growth of the small scale sector. There is no definite or

commonly acceptable criteria

to define SSIs. The First Five Year Plan of Bangladesh stated that an industrial unit, having less than Tk 2.5 million fixed investment including land. would be treated as a small industry. The country's department of industries denied small industries as a unit having fixed costs up to Tk 1.0 million excluding cost of land. According to the Investment Schedule of BSCIC for the period of 1985-90, small scale industries are defined as an industrial unit having a total investment of Tk 5.00 million with fixed assets (including the value of the land and the building). Under the Industrial Policy of 1986, small scale industries have been defined as industrial units having a total investment of Tk 15 million Small scale industry have cer tain common characteristics. They are managed by a single person (or a few persons), often as a family business. Investments are small and mostly from within the family and close friends. The machinery used is often not very modern, while the number of employees are small (less than 50). Employees are less skilled than in the large firms and are paid less, but have greater loyalty. Management and marketing techniques are old fash

technology adoption, absorption and diffusion.

The country's FFYP reveals that there are 32,000 small industries and 3,83,000 cottage industries (excluding handloom) in the country and it employs 5 million people



Investing in cottage industry with government patronage: a

step into the inclustrialization process constitute an important subsector of the economy. It has the potential to reduce income inequality, promote balanced regional growth through the dispersal of economic activities, make proper utilization of local resources, meet domestic demand, promote export, earn foreign exchange, crate entrepreneurial skills, ensure supply of basic needs to the people, and expedite the process of industrialization. It also plays a major role in the technological progress of the country and the process of

which accounts for 78 per cent of total industrial labour force. This sub-sector can create employment more cheaply than the large industries subsector. According to the FFYP, employment for one person can be generated by an average investment of Tk 50,000 in the SSIs and an average investment of Tk 4,000 only in the case of cottage industries. According to the Census of Manufacturing Industries of 1989, the total number of manufacturing industries was 23752 of which small indus-

share of small and cottage industries in employment was 82.2 per cent. Though SSIs contribute significantly to the country's economy they have also a 'dark and shocking side. The SSIs of Bangladesh are growing at a very slow rate. The growth rate of the SSIs was about 3 per cent in the year of 1991-92. A large number of industrial units have been closed or are not operational, causing stagnation in the entire industrial sector. The growth of this sector is being constrained by a number of factors. Some of the problems are : (a) inadequate finance and credit. (b) non-availability of raw materials. (c) lack of ap-

propriate technology and problems of technology upgradation. (d) lack of marketing and inadequate service support. (e) inadequate and undeveloped infrastructure. (F) in-efficient management, [g] lack of adequate training and inadequate government support. Due to these problems SSIs continue to be 'sick and anaemic. Despite the persistence of

problems, the SSIs remains an important sub-sector of our economy. What is needed is proper governmental patronage and support, commensurate with SSIs contribution to the economy, which will enable the SSIs to make full use of their potential capacity. Comprehensive activity-specific surveys should be conducted to improve the data set about the SSI. The availability of data set about the SSIs is an important pre-requisite in helping formulation of well coordinated and proper policies for this sector. Various government and non-governmental organizations can help in creating a comprehensive and strong data base on the SSIs.

The experiences of countries like Japan. Korea, Taiwan show that small industry sub-sector can play a dynamic role in the industrialization process. It may be hoped that SSIs of Bangladesh will be able to play an important part in the country's economic development if necessary policy measures are taken with a strong commitment.

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Growing wheat - a more practical crop unprofitable.

Production and area of wheat have grown tremendously in the past two decades in Bangladesh (Figure 1). While production and area growth stabilized during the 1980s, there were many reasons why there was no further expansion. Irrigation expanded greatly during the 80s, inducing many wheat growers to switch to boro rice once there were stable irrigation facilities. Yet, despite the conversion of land to boro rice, overall what area did not decrease as many previously cultivated during boro season were brought into wheat cultivation for the first time (Saunders, 1990, 1991; Meisner, 1992). Many new growers were inexperienced in wheat production, and

quired usually by the end of December and early January. Additionally, with the failure of the GK project, wheat can be a welcome substitute crop, utilizing the water that is available by mid-January before the canals go dry for wheat to produce a 2-3 ton per hectare crop. Lastly, boro is sensitive to low fertilizer-use as was experienced this year by the lack of availability of urea in the market. In contrast, wheat requirements for urea are entirely within the first 35 days of its growth and required no

vessels, operated by African

enterprises are relatively few.

Aquaculture — basically pond

farming of tilapia - is still in-

significant. But it has started to

grow since the mid-1980s.

Earnings from exports of fish-

ery products exceed expendi-

(usually promoted by develop-

ment aid agencies) to establish

a viable rural aquaculture -

mostly of tilapia in ponds -

noted. Efforts by export-ori-

ented aquaculture enterprises

to start culture of marine

shrimps have also met with

see a rapid growth in demand.

This will be driven by two ma-

jor factors: 3 per cent popula-

tion growth and 5-7 per cent

of urbanization growth. Fish

prices will increase in real

terms. Marine capture fish-

eries (With the exception of

those for small pelagics off the

West Coast of Africa) are un-

likely to increase landings

rapidly. But it is starting from

too low a level of production to

have an impact before the end

of the century, Mr Khan said.

Overemployment and overcapi-

talization, artisanal and indus-

trial sectors are competing for

access to the same fishing

Aquaculture is expanding

FAO estimates Africa will

have "frequently failed," FAO

in Africa, past efforts

tures on imports.

difficulties.

significantly.

grounds.

LL of us now talk

about 'sustainable de-

velopment'. Earlier it was 'development' which used to be talked about. And in such discussions a question used to be raised - development for whom or which class? Was it increasing the per capita income of the rich through industrial development or industrialisation under state ownership in view of equal distribution? Although the resolution of this question has not been finalized but when effective results cannot be achieved through cooperative or nationalization, the question of equal distribution does not arise. In most cases there remains little to be distributed. So, many have chosen the path of development through industrial development by the rich.

This system has been contravened by the non-governmental efforts. The Grameen Bank, 'ASA' (Association for Social Advancement) and some other non-governmental organisations of this country have proved that development is possible through "Poverty Alleviation Programme" by organizing those at the lowest rung of the society, deprived of facilities, and with credit support creating productive or income generating opportunities for them.

Development is made to occur many a time many a way. but not always found to be sustainable. Because there is absence of such initiators as intent to work for sustainable development through a deeper adjudgement of people at all levels of society. Such development as come up the 'spoon feeding way cannot be sustain-

In keeping with its conviction to this perception ASA, through trials and errors and tests and successes over the last ten years, in its smaller purview, has been able to reach the goal of obtaining a "Sustainable Development Model" by non-governmental

By this development process socio-economical development can be brought in through the poor as well as development of other economic groups in the society can be achieved. Moreover the work can proceed simultaneously through two systems.

marily, non-profit non-governmental efforts for direct development of the poor and commercial basis for the rich. And then by gradually taking the non-governmental nonprofit efforts on to the com-- Depth News | mercial basis, it is only possi-

It is better to adopt, pri-

ble to alleviate poverty exten-

Non-governmental

Before talking about "ASA Sustainable Development Model" we must know about ASA's perceptions of Sustainable Development. That is, to organize the poor people and to increase their buying capacity and income so that they can improve their lifestyle and quality of life by purchasing food, cloth, dwelling and medicine and imparting education to their children and achieving other primary rights on their own.

Here it may be mentioned that 'ASA' effort is a bit different from many other efforts. 'ASA' believes in increasing people's ability to buy all necessary services, which is perhaps easy to do and is sustain-

by Md Shafigul Huq Chowdhury

two programme models to reach this goal. One is social; such as development education, awareness education. protest against injustice establishing right of the land less to Govt facilities and all this is done by forming small groups at village level.

Efforts in

The other is motivating the group members towards savings and providing loans for increasing their income. Because the poor people are deprived of the institutional advantage. And, deprived of the institutional credit they seek help from the money lender. So 'ASA' saves them from the extortion of the money lender and helps them to increase income and proper utilisation of

(3) The lion's share of ASA's capital comes from taking loan at reasonable interests and from the savings fund of the members at reasonable interest. The fund is operated accumulating small savings where dependence is much lesser on unrefundable donor's

(4) Management and programme implementation are fully decentralized.

(5) Real participatory policy decision and implementation by the members and field workers.

(6) A transparent, easy and intelligible accounting system where no expert accountancy or even an accountant is needed. Respective field workers

such 60 groups or 1200 members. Four community organizers (C.O.) and a unit officer work at this office. For these five workers there is a local peon and a part-time local cook. In such a unit, credit programme begins from the 3rd or 4th month.

Sustainable Development

However, education programme (which is under social programme) starts from the first month. Similarly the weekly savings of Tk 5/- per head also starts from the beginning. In this way the credit programme ends in the 7th or 8th month. Within this time all the members would be underthe credit (loan) tutelage. In the first year each member would receive a loan of Tk 2000/-. In this way a credit programme of Taka 24 lakh is

ence of the past few years it has been amply proved that, it is very easy to increase the members' annual income by up to 300% through smooth distribution of loan and ensuring its utilisation. Even a poorest member can step out for selfreliance by keeping oneself sincerely integrated with the programme. For this also such programme/activity is called a 'Sustainable Development By effective application and extension of the model with

sincere efforts the expenses of primary education, health and nutrition, safe water, sanitation and housing etc. can be paid off gradually from the income of credit programme or increased income. There remains no more the need of free service for other programmes. If effective and extensive credit programme is envisaged for productive and income generating purposes then that has to be through successful associations/organisations, otherwise the new efforts will be nipped in the bud while the successful ones may also be threatened. If a decision in this matter is taken through a national consensus, a new horizon would be opened for implementation of Sustainable Development Model which would pull up the innumerable poor, hungry, ailing, shelterless and illiterate people to the rank of self-reliant human beings.

This ASA model has helped about three lakh women, up to December last year, towards self-reliance in 83 thanas by 2000 workers of 270 unit offices with cyclic credit programme. Every member can sign name and majority of the members can read. They also have access to many an information necessary for life and

living. Many non-governmental organizations of Bangladesh and development workers from different countries of Asia have acquired a lot of experience about this development model through field observation. Contracts are likely to be executed with the New York based voluntary organisation, "Save the Children. US" for extension of this "Sustainable Development Model" in countries of South Asia. Africa and the Middle East. Let this development model usher in hope among the deprived of the

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Rendered into English by Onirvan Shahu



able. People will buy education. medicine and other necessities themselves where the middle class need not give any subsidy or offer donation. Because now they have the capacity to buy their needs from the market. And this increment of buying capacity is possible only through effective implementation of credit programme.

They will increase their income by utilising the credit or loan and then buy their necessities gradually with the profit margin thus accrued. No Govt fund, donor's grant or subsidy is required as such, while there would prevail a transparency in Govt administration on refundable loan. For, in grant and subsidy there always prevails a sort of lethargy, corruption, procrastination and dependence, 'ASA Development Model' aims at freedom from all this.

The main objective of "ASA" model development is the socio-economic development of the family by the depressed and deprived women remaining at the lower strata of the society. ASA has adopted the increased savings thereof so that they do not have to depend on the loan money of 'ASA' for good.

'ASA' worked at the field level for the last five years and with its success has been able to get this 'Sustainable Development Model'. Adopting this model the poor people can reduce gradually their dependence on external fund by proper utilisation of their own fund. The specialities of this "Sustainable Development Model" are :

(1) It's a bottom-up process. Economic benefits climbup from the base. It can be called trickle-up or climb-up approach, wherefrom the poor are benefited directly and also other sectors of the economy are helped indirectly. ASA climb-up approach stands reverse of the usual trickle-down

(2) All expenses of ASA Development Model such as education, awareness, loan interest, other relevant papers etc are met from own income. You need not have to depend on donors for management or operational expenses.

themselves are capable to maintain it smoothly in their own domain. However, the regular monitoring system is required to be very strong and competent and 'ASA' has

achieved it. (7) There is a system of life insurance for the members. If no accident occurs, a fixed amount of money is accumu lated in their savings after every five years.

(8) One kind of loan one year - this helps in income generation.

(9) Most of the members that is about 99.50% are

(10) Social development and economic development are integrated, (11) The rate of loan real

ization is about 100% and that of self-reliance 102.50 % (12) To build up small institutional infrastructure for the

poor women at village level.

Maintaining the above specialities 'ASA' forms a group with 20 poor women. A community organizer works with such 15 groups or 300 mem bers. A unit office is established at the union level with

implemented in that unit. The benefit of Tk 24 lakh is derived from the initial capital of Taka 10 lakh by dint of a cyclic order.

In the second year almost all the members would get a loan of Tk 3000 /- each. About 20 per cent of the members may even get more than that. But this depends on the utilisation and repayment of loan and increase in income. This way the immaculate users would stage by stage get some more loans each year.

Within the 8th month of the first year the 'ASA' unit is able to meet its expenses from it's own income. In this way, from the 10th or 11th month the unit becomes capable of meeting not only its own expanses from the income but also all other related expenses including that of the central office. Thus it is called "Sustainable Development Model", As such. after project implementations for 6 /7 years and refunding the fund taken under credit programme, the development programme can be sustained.

world.

of ASA

From the practical experi-

fallow and marginal lands not further topdressing. Wheat has no major natural pests compared to boro rice which may required pesticides. By the end of March or early April, wheat is harvested, usually when most storms are just beginning. However, during boro yields did not continue to exseason, there are storms from pand as before. However, in the end of April and to mid-African Aquaculture Projects

Beckon Bangladeshi Investors by Juan L Mercado ANGLADESHI entrepared to 70 kg in Japan. It preneurs will find it fluctuated at this level during increasingly commethe two last decades. FAO noted that industrial

rcially attractive to invest in aquaculture projects in Africa. using low cost labour there and increasingly sophisticated Asian technology and capital

from this region. The Food and Agriculture Organization (FAO) outlines this prospect in a 1995 special report: The State of World

Fisheries and Aquaculture. "During the remainder of the 1990s, the absolute gap between the average salary of people in Africa and those in Asia will continue to grow," the UN agency notes. Africa's lag in aquaculture, as well as untapped natural resources, can pay off for investors willing to

take the long view. Asia today accounts for 84 per cent of world aquaculture production. China alone contributes 60 per cent of Asia's production. And this constitutes about half of the total world production. India is the second (17.4 per cent), followed by Japan (6 per cent).

FAO Regional Representative A Z M Obaidullah Khan points out that, in southeast Asia, fisheries including aquaculture; expanded along with other sectors. Per caput fish consumption has grown during the last decades. Fish processing industries also developed. Thailand, in fact, is now the world leader in exports of fish and fish products.

But fish consumption in Africa has lagged at approximately 8 kg per caput, com-