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THIS AND REQUIRIMENTS OF INDUSTRY $\mathbf{1}'$

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THE MEDICAND REQUIREMENTS OF INDUSTRY

The reed for scientific and industrial research in our developing countries cannot be over emphasised; because if Africa would become truly independent, there is need to use scientific technology to foster industrialization of the whole continent within the shortest possible time. We are happy to note that through the help of some United Nations Agencies, quite a number of scientific and industrial research institutes have been established in many developing countries with the view of fulfilling this need. This accounts for the reason by activities of UNIDC are so much welcome by these countries.

because this is the sort of programme which could help African to gain ever who independence through industrialisation and realise her true freedom; because it is now a sort of programme which could help African to gain because it is now a sort of that despite the fact that many infrican countries have gained political independence yet the majority of them are still dependent on decologic countries for their economic survival. In the anxiety to evercome this lisaster, many of these countries have rushed and are still rushing into all keeps of industries without proper technical or economic data as to the viability of these industries. Typical examples could be found in my own country where a commercies were built without finding out first whether the manners and the tomatoes grown in those areas are the right type for processing; and if not, whether the soil in the areas is good for growing the right types.

I have made he above observation to give you some idea of some of the industrial requirements of our African countries, the level of their knowledge about the setting up of industries, how our research workers could help and what would be expected of them.

To help promote in lustrial development in developing countries like those of Africa, therefore, the research workers will have to do a lot foro than their counterparts in developed countries; because in the first place there are some of the countries which have not got the qualified people to put up the realistic industrial plans on which research workers should gear their work. Quite often some of these countries invite foreign experts to help set up industries. Many a time some of these experts do not take the trouble to study prevailing conditions properly before deciding on the type of industry to set up. In some cases the people are not even asked what they want. The experts decide for them, and as the result of this they just set up industries which will depend whelly on the importation of rew materials from their countries to feed the plant all the time.

This goes to point out the med for research workers to get involved in their Government's industrial planning exercise, because failure to get Government's industralisation plans right will result in fruitless research to

Although this idea might sound good yet there might be some fear that Government officials might not belowe the research workers. But if a way could be found of which research workers, especially those in industry would be involved in economic and industrial planning at policy making levels, it might save unrealistic industrial planning which has been the cause of the drain on our scarce foreign exchanges.

The need and recuirements of industry in any country shather devil and or indeveloped is always ' wiring one and in setting out plans for this, priority must first and formus the given to industries which provide for the pare necessities of mon, namely, FOOD, SHELTER AND CLOTHING. The second or up of industries must be the type which will be mainly for export, and t' which should se those which ill povide for luxury. Spart from the utility aspect. industries are required to mable mankind to use its creative tallets, on this is how scinc. One arth to scientific research. There is an instinct in man which ungues an all it time to improve his living conditions and this inclinet has your three to duck them. While in the beginning of the world people atternate leaves, verstables of fruits, a time cane when fire cas introduced the grantifics were cloked. Houses, ich were built by leaves and office pave the bouses built by swish an' improved heaves or grasses for roofing and leaves are to hides in clothing. With the development of this natinet through education, we now marvel at the way the food we eat is preserved, the sky-scrapers we see in our cities and the clothing materials produced in our factories, all there are the result of the use of this creative instinct or what I will term science.

as I have said earlier, industries play a very vital role in a country's economy and I dare say that it is the life blood of every country and it is the pursuit of this which is one of the causes of colonisation and present international unrest, ampical example of this is the political unrest in Southern Africa. Industries are needed to provide the requirements of the people, they are needed to provide work for the people and they are the source of money both for Governments and individuals.

There are three rain things you have to find out when one thinks of setting up an industry. The first one is Market. That are the meds of the people and in what quantities. Secondly, how will these needs be provided and what does one meed to satisfy those meeds. You hast get an answer to all these on people before you set out, and this is an exercise the scientists call a fonaibility study. This does not work out right always but it halps to wide the operation. It sate our threshy the size of your market, the investment it requires in teims of fixed deserts and marking explicit. The number of people you need for the operative and to lived of the continuous and marking in a factory which gives out pollution or the approach to be a fact that the first set of the first state are a factory and a factory of the gives out pollution or the approach to the approach to the first set of the first state after a restaurance to the approach to the first set of the first set

Durn, by recent visit to Japan, China, America, Britain, Europe and Indic, I felt highly convinced that Africa is one of the next continent which will soon grow into an economic ciants. Then you think of Japan with its scanty natural new meterial source of supply, coupled with its heavy population why should Africa remain in this kind of poverty. How long is Africa going to remain a dumping ground for goods produced in developed countries. This question will be bost answered by you African scientists, African Governments and industralists of Africa. The African Governments have realised the need for industries, they are calling to the inaccenous citizens to take up the reigns or catch the commanding heights of their countries conscries by taking up to industralisation.

But do they truly know the kinds of tools those citizens require to be this? I can say that they ware aware because so much money has been invested in setting up research institutes in many of these countries. From the type of economic of industrial plans put up by then too one could see that they are trying to mear their policies towards industralization of their respective countries. Most of them remlising their limitations invide experts from developed countries to help them. In reading the report of the consultative meeting on Industrial Research held in January 1975, I found that the purpose and the scope of industrial research programme as set by UNIDO and other similar agencies covered almost all the creas of industry which needed attention. But the question is whether they to work structly too rds the set jual. Many a time research workers set their own poals and order of a decision products which till ain them academic recognitions or pot them is to the light but I believe that for a research programme to much the required such at to industry and yield the necessary results, efforts should be made first to help existing industries to perform efficiently and to produce first of as products. This requires understanding and co-operation on the part of the two parties. (Research workers and industralists). At the moment such a relationship does not exist. The two parties work in isolation.

industry then the next step is to carry out research with the view to developing new products but until the results of his work are tested on a large scale with an existing industry with the required equipment, and cost of production is marked out; and it shows a favourable markin, he cannot declare his work as successful for industrial use. Nany a time research institutes publish the results of their work as if it could be used for profitable operation, so many governments accuse manufacturers for not using the results of the institutes. From this one could see that there is need for consial relationship between research fellows and industrialists; they need each other for successful and effective operation.

At this point, I would like to drouthe attention of the development of special products for export. Quite a number of our industries have their processes upon those of industries in developed countries, yet many a time the quality of the finished products fails to expere favourably to those of developed countries. This is caused by the composition of the raw material. This goes to prove that if arrice is to be accepted on the world market with her products then she has to isvestip accepted independent products which if accepted will rest no corporation. It is heardling real products, in the traditional fashion, we require an afficiency to build suitable machinery for proposition and processing. For experience, has easily say that must of our scape e.g. grounding a point sour, has easily say that must of our scape e.g. grounding a point sour, has a said and the scale all as well as those produced in Insia as after the product of the rate of which our attacks are said that a well as those produced should be said that a well as those produced as a standard of the rate of which some likes are the said that a well as those produced should be said to be said that a well as those produced as a standard that are said that a well as those produced as a standard to be said to be said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those produced as a standard to the said that a well as those said that a well as the said that

Simply in the pright of the interesting in industry one can sample of that is conditions on all will some the way they are, then the commanding heights and never a will be account from a ine in. The index a us citisens of Africa require and touch and technical know-how as easie tools to work with in order to the account as heights of our a conics. The picture as it is in the follow indeed as injustry. In section or an injustry of the account of the height of all the approximate as well. In shirt they all the part of production managers, at tasts or a k-keep as, we surch and are not production managers, all a managers, and the first or a k-keep as, we surch and any school late, the povernment departments, as to look if propers - rim to a keep as a surch a surger in heavy packs if forms to a first a product. The arequirement as

There are no lone of which has been put the to proper planning and grant of the section is a state those when and industrial policy of India, you would see that . . It following the footstope of Jopan. These governments, and so are most community in a value of countries, have taken industrial problems as "Metro 1 Pr 51 ms". These povernments don't only put plans on paper but their filter in supported by the necessary incentives. These governments lay special emphasis in their budgets in research institutes, training centres spens roully designed to cater for special influstries and common services waters to provide common services needed in support of indegenous industries. In botic, any citizen with the know-how in a particular industry could walk not special office where he could obtain florsibility studies based on the natural resource of the country. Upon deciding to go into industry, he fills the recessary discurrents and he is directed to Industrial Bank for the required Purish with government as his guaranter. After this, he goes to a department f India National Trading Company to place on order for the required machinery, and then he is allocated an industrial estate with all the necessary infrastructure. This is not the and of the help. His performance is closely followed up by extension workers the tre professional engineers, designers, on memists etc. Everything possible is lone by the government to see to it that the help given is utilized properly and profitably and the money is not misused.

To enable indegenous citizens to survive the present economic struggle the African poverments must discriminate. For several years in Ghanc due to the lack of funds indegenous Ghancian manufacturers could not utilize their licences to brink in raw materials for their operations. The matter was taken up by Ghana handfecturers association and berely ever a year ago a special guarantee school has been set up whereby any indegenous manufacturer presenting his import licence, tax clearance contificate, belonce sheet and a letter from the office of GNA saying that he is a paid up member of the association to his bank, gots his letter of credit opened without paying anything.

When the games arrive he is expected to pay down 25% of the total cost including duty, and the balance is paid in six months at 10% interest. This is a typical example of the type of discrimination. I am referring to. In India, no textile factory is allowed by law to print or weave antirial which is woven by hand loop or printed by hand. On the other hand for irm textile factories in Africa are weaving and printing naterials whose partners have been developed by our great grand parents and passed down to us.

Discrimination and protection have to be used by our African governments as incentive to indegenous industrialists. Before I conclude this paper, I would like to appeal for the formation of Lanufacturers Association in other African countries. A lot has been schieved by the Association in Ghana in advisory capacity to help the members and the Government. I suggest UNIDO looks into this request find find a way to bring African industrialists together. This will also help to plan together to avoid Application, because if duplication is allowed to continue, the way it has started, it will affect our inter African Trads.

In conclusion, I would like to stress the point that it is the turn of the entire african continent in the economic race. The race must be run by the indegenous people themselves. The team for this economic race should be composed of the African Governments, scientists, engineers, industrialists, businessmen and last but not least the United Mation Agencies. Bach of these groups has a vital role to play. Indeanch individual in any of the groups is equally important and we must treat each other as such. "e must accept this truth that for any of these groups to render the required contribution effectively, and make the right impact, we need each other. In this race the governments will be playing the role of the captains and the United Nation Agencies will be the co-ordinators. Efforts should be made by these co-ordinating genoies to bring the monbors of the team together as often as possible to begin with until we find our feet. With this plan of action and if every number of the team will play his part sincerely, devotedly and aggressively with tenseity of purpose in the free of all adversities, it will not take Africa any length of tire to score the economic goal through industry.





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