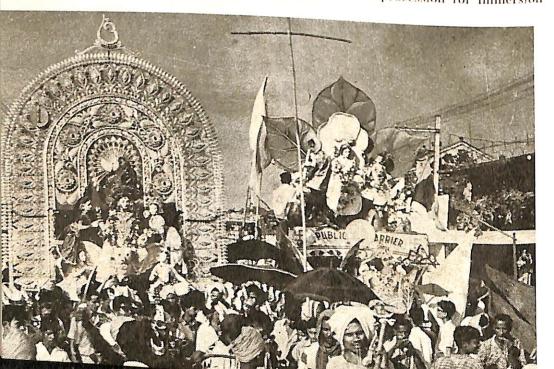


Bronze Statue of Gandhiji erected at Bhawanipatna (Kalahandi District) as a part of Centenary functions. The Statue has been moulded by Sri S. Dhanpal, Vice-Principal of Government College of Arts & Crafts Madras, at a cost of Rs. 20,000. The people of Kalahandi have contributed nearly Rupees One Lakh for raising memorials for Gandhiji



Concluding ceremony of the week-long Gaja Laxmi Puja at Dhenkanal was held on October 21, 1970

Picture shows the images are being carried in procession for immersion



SSA REVIEW seeks to provide condensed record of the ivities and official announceints of the Government of hissa and other useful informa-Many items appear in mmarised form. Such items ould not be treated as complete authoritative versions.

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- * Shri Tarakanta Mohanty

OUR PLAN AND THE GREEN REVOLUTION

Agriculture is the mainstay of the people Orissa. About 80 per cent of the popula. a lives on this primitive industry. The of the crops produced in a year is of the crops produced in a join of the stal income of State. The remaining 40 per cent State's income is derived from industry, the conomy the State is therefore State is therefore property agrarian in nature. It appears that per agrarian in nature. It appears to the population enjoy 40 per of the national income of the State the national income of the lation per cent of the total population gaged in agriculture share only 60 per of the state's income. This disparity the national income cannot renational income cannot unless the agricultural programmes Tevolutionalised. We cannot talk of the lustry unless agriculture of the State naton valess agriculture of the material prosperous and provides sufficient materials for the growth of the industhe State. Some steel plants, opera of coal mines or other such manufacof coal mines or other such manual to concerns cannot solve our problems it may further worsen the per capita

difference of income in the different sectors of agriculture, trade, industry, etc.

Since the last two decades stress is being laid on the Agricultural Development Programme and steps have been taken for full application of science and technology in the field of Agriculture.

The introduction of high yielding varieties of paddy, viz., Taichung Native-I, IR-8, Jaya, Padma and Mexican Wheat, Lermaroso, Sonara-64, Safed larms; Sona Lermaroso, Have brought about practically like, etc., have brought about practically a revolution in the field of agriculture. So long, the research findings were kept isolated from the field of agriculture. But isolated from the field of agriculture. But the present extension programme has the present extension programme has bridged the gaps between the research, laboratory and the field.

Under the emergency food production drive, efforts were made to intensify

the raising of the second crop of rice during Rabi in irrigated areas of Cuttack and Sambalpur in the year 1965-66. The variety of Taichung Native-I introduced in the village Putting of Cuttack district brought the success in getting a record yield of 132 Mds. of paddy by Shri Upendra Biswal. This success explored the great potentialities we have. His success was again repeated by Shri Laxman Kumar Dharua of Bolangir district who achieved a greater success by producing 195 Mds. of paddy per acre. Shri Rama Raul of Chatrapur and Shri Nilakantha Behera of Parlakimedi both in Ganjam district also achieved record yield in paddy cultivation.

This revolution has brought about 4 lakhs acres under high yielding paddy cultivation by 1969-70. It is expected to bring about 10 lakh acres under high yielding paddy cultivation by end of the 4th Plan Besides this H. V. P. Programme, we have got extensive areas where we can share the introduction of high yielding wheat crop.

Shri Dutiya Chandra Patel of Sambalpur has established our potentialities in the field of wheat cultivation. His record yield of 63 Mds. of wheat per acre has lead us to believe that high yielding wheat can pay us better than the high yielding paddy crops at lesser cost and with the 1/5th of the water requirements. We have proposed to bring about 0.24 lakh acres under high yielding wheat crops by the end of the 4th Plan to meet our requirements. To altract the cultivators to take up this cultivation, about 100 farmers of this State were sent to Punjab by the Orissa Krushak Samaj to see and to have the first hand knowledge about the intensive wheat cultivation programme in Punjab. Similar programme has been drawn up for repla-

cing unremunerative cereal crops like Bir paddy, ragi, local maize, etc., by introd cing high yielding varieties of bajra, jows hybrid maize, etc. All this programmes w help us to increase the production of ri and other cereals from base production level of 49.57 lakh tonnes in 1968-69 to lakh tonnes by the end of the 4th Pla In addition to these food production pro grammes, all efforts are being made double the jute and mesta production from the base production of 4.10 lakh bales 6.40 lakh bales by the end of the 4th Plan

vegetables Oilseeds, sugarcane, pulses are also important crops of State which contribute to the major incom in the agricultural sector. The recor yield of 37 quintal per acre given by Shi Pareswar Panda of Aul of Cuttack district in groundnut gives high achieve the target to 2.70 lakh tonnes oilseeds by the end of the 4th Plan.

107 tonnes of sugarcane yield per acri by Shri Kubar Rout of Baramba of Cuttach district which is ten times the average sugarcane acre-yield of the State is high raises important landmark. of 3.00 lakh This hope of achieving the target Plan tonnes of Gur by the end of the 4th lakh against our base production of 2.11 tonnes.

past In reviewing our achievements in pruand our agricultural development gramme at hand, it may be noted credit facilities available in the past were quite in de quite inadequate to meet the needs of tree farmers farmers. Since nationalisation of banks, credit includes credit institutions are coming up in far rural and urban areas to support the grow mers by advancing crop loans to grow

temunerative crops in the line of the Package of practices recommended by the echnical personnels of the Agriculture Department. This will certainly help to et ample opportunities for the extension acreage under different crops and will the cultivators to adopt multiple The growth of cropping programme. hese credit institutions will supplement the Green Revolution which has taken place in ferent parts of the State. The agriculpersonnels are trying their best to up these credit institutions for implementation of the crop production programme.

Fertiliser plays an important role in Maximising the crop production. The Consumption rate in our State is only Rg. per hector which is very disappointing in comparison with our requirehent per hector. The reason for this low per hector. The reason for the purchacapacity of the farmers and nonarailability of this important input at the the fam. for farmers for the use of this input for to to the use of this input to to to the to production. In order of homote the consumption of fertiliser State, the Government have taken steps the introduction of free trade in fertilisers hesticides through induction of pri-Desticides through induction of program-dealers, organising training programdealers, organising training pros-wing and seminar to educate the farmers, wing out field demonstration and other programmes.

To far our agricultural economy was based crop programme. Unless we grow

at least two crops in the non-irrigated areas and three crops in the irrigated areas, our agricultural income can not be substantially increased. In the non-irrigated areas we are planning to grow one rainfed crop and another short duration crop in the residual moisture. In the irrigated areas three crops are being planned on rotation. We have got the multiple cropping programme. To popularise this programme, thousands of demonstration plots have been laid in cultivators field to bring home the recommended crop practices suited to the local conditions.

The success of all these programmes do not rest on the handful of technical workers engaged in the research laboratory or in the field of the extension programme. At length, this will be done by the 80 per cent of the population engaged in industry of agriculture. To train all farmers to take up the new technology and adopt farm practices is a difficult task. So steps have been taken to impart training to selected farmers from different blocks and villages in batches and to equip them with necessary information for taking up the leadership in the villages. Peripatetic trainings are also arranged to train up the cultivators at their farm houses for adoption of recommended practices and to take up the multiple cropping programmes, being supported by listening clubs, frequent radio contacts programme now rests with the farm leaders and farmers for making the Green Revolution a great success.

ROCK MEMORIAL TO SWAMI VIVEKANANDA

"I am proud to belong to a nation which has sheltered the persecuted and the refugees of all religions and all nations of the earth" said Swami Vivekananda on September 19, 1893 at the World's Parliament of Religions held at Chicago.

Seventy-seven years later, his country men, to promote and propagate the philisophy of Vivekananda, built an imposing edifice at the land's end of India at Kanyakumari where he, in his deep meditation, received divine light and discovered the mission of his life.

At the confluence of the three seas at Kanyakumari, two huge rocks magnificently jet out of the water about two furlongs off-shore. Swami for a retreat on the "Shripada Rock". The Vivekananda Centenary Celebration Committee has built a spacious Mandapam with a magnificent Mandapam of equal grandeur housing the feet of Devi Kanya, the legendary cost Rs. 90 lakhs.

The mandapam is patterned on the model of the Ramakrishna Mutt at Belur. The front porch of the mandapam is reminiscent of the Ajanta type of architecture and the towers raised on the mandapam that of Pallava architecture. The artisans who did the job were trained in the Mahabilipuram Government School of Sculptoral Arts.

The total quantity of the stones used for the construction work is 73,000 cubic feet. The major portion of the granite, black and red stones and slabs used is quarried from different centres in Tamil Nadu. They rock by landing crafts.

The memorial has been designed by Shri S. K. Achary of Devkottai of Ramnathapuram District in Tamil Nadu, an architect of the traditional put up this memorial to the man who gave spiritual shape and size to main's worldly horizon.

Eechnical Education for Industrial Development

India is known for its engineering that engineering skill was possessed by people from ancient times. There are manuscripts to show that our ancestors has skill and talent could not be passed by Technical Education system and country.

Before Independence, India had hardly place on the industrial map of the With the advent of planning.

The country. The First Five-Year Plan had an outlay of Rs. 1,460 crores on the industrialisation the ravages of war, famine

and partition. Agricultural development along with irrigation and power generation as also transport received high priority. Industrial expansion received priority in subsequent plans. Under the Second-Five Year Plan the cutlay was Rs. 6,750 crores and the main objectives were rapid industrialisation, larger expansion of employment opportunities and reduction of inequalities in income. The Third Year Plan had an outlay of Rs. 10,400 crores. It also laid greater stress on Industrialisation and also for the time explicitly stressed on self-reliance and self-generating economy. While the 1st Plan achieved considerable success the 2nd Plan was also satisfactory, records of Third Plan did not appear good. During the Third Plan, for 3 years the five, weather conditions

Freedom is not worth having if it does cannote freedom to err.

-M. K. Gandhi

adverse and the country had to face hostilities with China and Pakistan.

In spite of all this, the overall progress, considering the three Plans together, has been fairly satisfactory. Thus compared to 1950, we now produce more than 3 times of Cement, four times as much Steel, more than 6 times as much Electric power, seven times as much Machine Tools, in terms of value and 15 times as much Aluminium, 5 times as much of Paper and 10 times as much Fertilisers.

The output of the engineering industries increased from a paltry sum of Rs. 80.8 crores in 1951 to an impressive figure Rs. 1,606 crores in 1965. Where there were a few small repair workeshops, the country has today several gigantic undertakings manufacturing items ranging from pens and handtools to ocean going vessels, aeroplanes, locomotives, rail coaches, telecommunication equipments, televisions, . automobiles, heavy automobiles, heavy Power generating generating equipment and a vast array of Industrial machinery and machine tools.

All these developments have resulted in just scratching the fringes of the problem. Our average per capita income is a little over Rs. 500 in a year (that of Orissa is Rs. 347-only higher to Bihar). Although we were ranked 14th in the world for Power Generation (we produced 2 million Kw in 1947, 13 million in Kw in 1968 and Targets of 1970/71 and 1974

are 20 million Kw and 30 million Kw respectively) our percapita consumption only 70 KwH compared to 7,400 Kw in Canada, 6,400 KwH in USA, 3,700 Kw in U.K. and 2,000 KwH in Japan. Similarlour per capita consumption of paper in only 1.5 Kg. compared to 243 Kgs in USA 167 Kgs. in Canada, 123 Kgs. in U.K., 11 Kgs. in West Germany, 97 Kgs. in Japan and 23 Kgs. in U.S.S.R.

It would perhaps be worth while at this stage to focus the attention to the enormou resources our State of Orissa. possesses about one third of the Iron-ore it India. Nearly a thousand million tonne. available Orissa produces 26/2 of non-coking coal is production of Talcher Coal fields. Manganese in the country inclusive of Gos total and the estimated reserves are of Similarly tonnes. order of 21 million Orissa is the leading producer of grade limestone and dolomitte needed for the Steel Industry. Almost all Orissa. found in Clay, mite Ore in India are Quarz, Quarzites, Fire Clay, China Asbestos. other Kyanite, Bauxite, Graphite, the are galena and nickle state. not in this minerals found lagging behind. It constitutes 8 per cent of the total Ethe total Forest area of the country 42 per cent of the area of the State. Jine had nearly 400 meter long coastal lakes large number of rivers, artificial and lake in the created by Irrigation Projects natural Chilika—the bigest

You can rob an army of its general, but not the least of men of his well.

-Confucius

ountry giving scope for exploitation of shries.

here is enough water available for diveron to agriculture or industry or for neration of power. Orissa is the only ate in Eastern which India bstantial surplus of power. In spite of ese vast resources and in spite of the Five-year Plans, the economic ondition " to continues of Orissa 15th Poor. Orissa ranks dia in Industrial backwardness better than only Jamu & Kashmir Nagaland. In the words of Dr. A. N. Original Andrew Covernor of State Orissa mirrors the paradox of all backard areas-poverty amidst potential plenty. has untold wealth of natural sources, land, forest, water, minerals a long sea coast and a population of bout 18 million. Yet it is the poorest and backward State of India".

On the other hand, if we look to the look that one within seconds, we observe that one look the look that the look that the look that the look that look the look.

the above comparison is not intended to any disappointment in us. Dr. Zakir the late President of India while a gathering of engineers had

once said: "We have the potential resources to give our teeming millions a reasonable comfortable standards of living. The question of making our potential resources into goods and services lies preeminently in the sphere of engineering and technology. In the war against poverty that we have launched, we require the services of a vast army of first rate engineers and technicians to be professionally competent and imbued with a passion to serve our people. Our people, in spite of their poverty and backwardness, are wide awake and thoroughly dissatisfied with their lot. Here is a challenge and opportunity to our scientists, engineers and technicians."

It is, however, quite significant that we have now established a base on which all our future development can proceed. To my mind, for the Industrial Development, we need five 'M's—Men, Material, Machines, Methods and Money...All these will have to combine to achieve maximum benefits possible. Let us examine the importance of each these M's in a broader way.

MEN is perhaps the most important factors of all Be he is the mill-owner, foreman or a administrator, technocrat, foreman or a skilled hand. The success of any industry necessarily depends on the hard work put in by each of these men in different positions with a team spirit and in a collective tions with a team spirit and in a collective manner. The history of Technical Education, I believe, will be relavant in this context.

The soil of India, is my highest heaven; The Good of India is my highest good.

-Swami Vivekananda

Perhaps, the most ancient technical institution of the kind was the one established by the East India Company in Madras in 1754 and was then known as School of Surveyors. No other Technical Institution came up for nearly a century. Three Technical Institutions were started in 1842, 1846 and 1854 in Guindy (Madras), Roorkee and Poona respectively. The first planned effort in the field of Technical Education was made in 1936 when an committee from U. K. visited this country and produced the Abbott-Wood Report on Technical Education. However, before any action on the basis of this report could be taken, the second world war broke out. The need for technicians for the War effort was then felt and several training programmes were organised.

In about 1944, two important decisions were taken. Firstly, it was recognised that Technical Education after the school stage need be planned on an all-India basis. This resulted in the establishment in 1945 of an All-India Council for Technical Education. Another decision taken at that time was the appointment in 1947 of the Scientific man-power Committee to undertake a survey of the available man-power in the various spheres of technology and to report to the Government on the deficiencies that existed and to make suitable recommendations on the ways of removing the short-comings. The findings of Committee revealed a tremendous between the immediate requirements of the country and the output of the technological institutions

Thus, when India attained Independence in 1947, a certain amount of awareness of the importance of technical education to

national prosperity had grown in man quarters. Much headway, however, cou not be made till 1951 mainly due rehabilitation problem of the displace persons.

The 1st, 2nd and 3rd Five-Year Plan accorded high priority to technical edu cation and a large financial provision we made both the centre and in the State for the establishment of new institution and for the development of existing ones.

In 1947, when we attained Independence there were in this country, 38 Engineering Colleges with a total admission capacity o 2,940 students per year and 53 Polytechnic with a total admission capacity of 3,670 students per year. Except in the Indian Institute of Science, Bangalore, there Post-Graduate were no facilities for studies. There was hardly any properly organised Industrial Training Institute for the training of technicians except that the War time Technical Training facilities are utilised for rehabilitation and resettlement of ex-servicemen and for training ing of other civilian personnel. Today, the number of Degree Institutions has increased to 138 to 138 with an admission capacity of over But only 40 Institutions provide facilities of Post-Graduate studies to nearly 2,000 students. Polytechnics increased to 288 with an admission capacity of about 50,000 students per year, with a we have today more than 300 ITIs with a Training con Training capacity of over 125,000 students per year. Besides this, we have Junior Technical S. Technical Schools and a large number of Training of the large number of the large numb Training establishments for the Railways, Defence Decider Defence, Posts & Telegraphs and other Department Departments. The Private Sector too has

ablished many training centres to meet ir specific needs.

Pansion of technical education has thus achieved in the course of the last years. This, however, poses many oblems: firstly—

Do we need Engineers & Technicians in such large numbers? Have we seats planned the distribution for Mechanical, Electrical, Civil Chemical, Metallurgical, Mining, Production, Industrial and other branches of Engineering according to the needs of the Country? As you know more than a lakh of Engineers and Diploma Holders are reported to be now unemploy. ed. Between 1965 and 1968 alone the figures rose from 17,000 to 56,000 for Engineers and Diploma. holders and from 37,000 to 78,000 for I.T.I. Trainees. This large scale unemployment may be the cause of recession the country faced from 1965 to 1968. The economy is now picking up weather conditions have remained favourable giving rise to bumper food crops. The Fourth Five-Year Plan draft is also full of promises with a total outlay of a little over Rs. 24,000 crores. What is however, necessary is that the requirement of Engineers and Technicians in different faculties carefully re-assessed more emphasis given on consolidation rather than expansion.

Secondly—Is the quality of Engineers
Technicians produced by us

good? The general feeling of the Senior Engineers in the Industry is that the University authorities in an attempt to impart basic knowlege in so many subjects have perhaps not quite realised the needs of the industry. main objective of the students remained to anyhow pass out of the none too good system More audio-visual examination. lectures, industrial tours and practical work are more imporverv plays a tant. Training important part in technical edugives them an cation. This opportunity to understand the realities, to inculcate the sense of discipline and to make them specialised in particular trade. There is hardly any between the technical institutions and industry and also between the technical institutes and National Laboratories.

Thirdly—Is the quality of teachers good? It is a common experience that the teaching profession ence that the teaching profession has not attracted really, suitable persons for the job primarily due persons for the job primarily due to low remuneration. Further, to low remuneration. Further, most of them have no practical experience of the Industry at all experience of the Industry at all and do not keep abreast of the latest developments and technology.

Technical Education for Industrial Development has now been an accepted prequisite. Experience alone is not everything sophestication. In the era of automation, sophestication and fast moving machinery, we need persons with technical bias who operate persons of automatical bias who operate persons of the sound in th

them well, maintain them well, devise means to reduce cost of Production and maintenance increase production and increase efficiency by developing new methods. materials and machinery. Import substitution, quality control, consultancy, industrial engineering, design and research, planning, projecting, are the other fields of activities for the engineers and technicians. They should the need of good human relations and participation in the social and political affairs and work towards a balanced and integrated society.

MATERIAL: Availability of the appropriate material for a particular largely depends on natural resoures nearby. Technical Education has made utilisation of other materials possible both in consumers and engineering industry. For example some 30 years back bamboo was not considered as a suitable raw material for making paper. Today, bamboo become the most popular of all the raw materials available in the country. Grasses, agricultural residues and bagasse are finding increasing use in paper making. Few woods are also used to limited extent. the engineering industry, stainless steel is being fastly replaced by plastics, FRP, Aluminium alloys and rubber-lining. Moreover, let us not loose sight Japan is producing steel at cost lower than us from imported iron ore including from India.

MACHINES: For any industry machines are a must. A good knowledge in proper selection of the size, design and capacities is essential to suit the local conditions. Due to the technical education, India is in a position to design and manufacture to

plan suit Indian conditions; fertiliser cement plants, sugar and textile machine boile substantial part of steel plants, transformers, AC and I machine tools. mach exporting machines. We are of countries tools to all advanced US UK and world including USA, Without trained technicians could this he been possible?

METHODS: Methods are chang continually. Sometimes it is difficult keep pace. It effects the cost of prod tion and quality. Take the case rivetting replaced by welding, Methods telecommunication, power general material handling and transport hundergone radical changes in couse of times.

MONEY: No Industry can be set without money. However its good or running depends on men. After all w is the reason that our Steel Plants in Public Sector are running in heavy loss

unemploym non-technical F In spite of large scale sonnel at present, I am confident that technicians have a bright future. country will have to prosper which in opinion can only be done through industribution can only be done through industribution lisation and new techniques and impleme in agriculture. We cannot allow our v resources to go to waste. In the words late Shri Vi late Shri Visveswaraya, the engineer wizard, "Succes's depends largely on capacit own capacity, integrity and keenness work" Is work". If we get into the habit of we entrusted entrusted to us or if we are able to contrate and trate and absorb ourselves in it, we be sure of our success.

Thanking you

Abolition of Erust Estates in Orissa

With the passing of the Orissa Estates the passing of the Orissa in the olition (Amendment) Bill, 1970 in the the Assembly recently, the first chapter the history of land reforms in the State Orissa can be said to have been closed. his amendment now arms the State amendment now arms estates, the last vestige estates, the last vestige in between in between give Straights standing in between State and the raiyats. The Orissa State and the raiyats. The Act of [152] Abolition Act, 1951 (Orissa Act not Abolition Act, 1951 (Orissa not not), as its preamble will show, does not he of from its pe of intermediary interests from its beration. It was only in the year 1963 the first time it was considered the first time it was considered that the Public Trusts should be considered to the public Trusts should be consid that the Public Trusts show abolition. It was apprehended estates the annuity payable to such estates way of compensation would not be management. way of compensation would not amount for their efficient management. amendment was accordingly made and to the main the Chapter II-A was inserted to the main Abolition Act by the Which provided a special procedure from the which provided a special provide ORIGO

operation of general vesting notification issued under Sec. 3-A of the Act.

PRESENT AMENDMENT: ITS OBJECT

This policy however could not fit in with the change in the situation after it was decided by the present coalition Government for abolition of land revenue. trust estates would continue to pay rent became incompatible once it was decided that their counterparts in the vested estates would pay no such dues to Government. So, as long back as on the 9th March 1968, an official resolution was moved and accepted in the State Assembly for extension of this concession to the estates not yet abolished subject to appropriate examination of legal and examination, it was found that this decision could not be implemented unless the trust estates were abolished and vested in Government. The objective as set out in the Fourth Five-Year Plan for completing the process of estates abolition in toto during this period was another factor which also prompted the State Government for abolition of these estates which had been kept alive after the amendment of 1963.

WHAT ARE THE TRUST ESTATES

As defined in the Act, a 'Trust Estate, means an estate the whole of the income whereof under any trust or other legal obligation has been dedicated exclusively to charitable or religious purposes of , a public nature without any reservation of pecuniary benefit to any individual. They mostly constitute the revenue-free estates the proprietors of which are commonly known as Lakhraj Baheldars. The grants of revenue-free estates are divided into two classes—absolute gifts to individuals gift of lands to be held in trust for religious or charitable purpose. former are known as Brahmottor, Pirottar, Dan, Mauff, etc., whereas the latter known as Debottar, Amrifa Ekhrajat, Sadabarti, Pirottar and Kadam The grants in trust the absolute property of the temple, idol, monastery or saint . while management is vested in a trustee who is variously called the Sebait, Marfatdar, Mahant, Mutawalli or Daroga. It should be clearly understood that the Chapter II-A of the Orissa Estates Abolition Act, 1951 gave protection to only public trusts but not to private trusts and it was not retrospective in operation. The distinction between a private and a public trust. as observed by the Supreme Court in the case of Deoki Nandan Vs. Muralidhar (1956 S. C. R. 756), is that whereas in the former the beneficiaries are specific individuals, in the latter they are the general public or a class thereof. The member of trust estates in the State, declared as such

by the specially constituted Tribun: under the provisions of the aforest Chapter II-A, is fairly large. Subseque to the issue of notifications under secti 3-A for vesting of the Lakhraj Bahels a such other interests after the amendme of 1963 as many as 53,154 claims we filed before the Tribunals for their excl sion from the operation of such vesti notifications. Out of these claims 33,3 cases have been disallowed, 15,106 cas upheld and 4,680 cases are still pending the Tribunals for adjudication. T. cases in which the claims have been uphe constitute the religious and trust estates of public nature. These a the estates which need now be abolishe The Ekhrajat and the Sataishazari maha at Puri a of Lord Jagannath temple included in this list.

WHAT THE PRESENT AMENDMENT PROVIDES FOR

As pointed out earlir, the provisions Chapter II-A which were inserted to the Act in the year 1963 were the stumbling block to the abolition of the trust estate en masse. This chapter has now bee deleted. Under the scheme of the princ pal Act the compensation payable to a estate abolished is determined as a multip of its net income and this multiple adjusted on a sliding scale for different income brackets. As provided under section 2006 section 28(2) thereof, the compensation payable to payable to a trust estate is to be assesse as a perpetual annuity instead of in This has been made so in orde lump sum. to facilitate the continuous performance the Seve B the Seva Puja and other prescribed rite of the doi! of the deities. It is found that in most the relies. the religious estates the rent is payable in kind As per the existing rules the kind.

at payable in kind is valued at a price levailing during the decade prior to 12. It was thought that this would ake the amount of perpetual annuity yable to a trust estate ridiculously low that would be quite inadequate for purpose for which it was intended. order to remove this difficulty it has provided in the present amendment at the perpetual annuity shall be subject revision whenever the price of paddy in parison with the price prevailing at time of assessment or, as the case may last revision of the perpetual annuity creases or decreases by at least twentyimportant centum. Another centum. Another is that the in other vested estates the holders lagirs rendering personal service in the thist estates will not have the benefit of enfrachisement even after abolition of heh estates. In other words, they will instito render service to such instito render service to such as This also has been provided as safeguard against the contingency of Safeguard against the coning due of Seva Puja, etc., due material hon availability of man and material in of land availability of man and material and land of land heven of need. After abolition of may of need. After abolition may the holders of such jagirs may the holders of such jagns rendering the same incentive for rendering possible the same incentive for reliable. In case of any such possible hancy the only course left open to the under history the only course left open under will be to seek redress under rection 24 (2) (iii) of the ct 2 Endowments Act, 1951 (Orissa Cott 2 Endowments Act, 1951 (Orissa Cott 2 Endowments Act, 1951) ct 2 of 1952) or under the appropriate Religious hdown of the Orissa Hindu Religious into ndowments Act, 1969 when it comes into

SOME POINTS TO PONDER OVER

The amendment has given rise to doubts proposed hat amenanters dollition of trust estates may come in ORISCA DOZINO

conflict with the fundamental guaranteed under Article 26 of the Constitution which, subject to certain conditions, permits every religious denomination any section thereof to own and acquire movable and immovable property and to administer such property in accordance with law. In this context it may be pointed out that Orissa is not the first State which has taken this step. The Devasthan Inams in Gujurat have been abolished with effect from the 15th November 1969 and in Kerala legislation with regard to Sripadam lands and Thiruppuvaram has been brought into force with effect from the 1st January 1970. The legislation of the State Gujarat has no doubt run into rough whether as its validity has been challenged in the High Court and the religious institutions in the State of Kerala are facing difficulties due to delay in sanction perpetual annuity. The abolition of mere intermediary rights of a religious estate may not perhaps hit the rights guaranteed under Article 26 but the point to ponder is whether the perpetual annuity can be sanctioned in time so that the Seva Puja of the deities may not suffer and thereby the religious susceptibilities of the people are not wounded. The disposal of cases which will be instituted under sections 6 and 7 of the principal Act for settlement assessment of rent on Khas dakhal lands may take a fairly long time and this may in turn delay fixation of compensation to be paid in shape of annuity. There is no doubt provision for interim payment of compensation under section 38 (3) which provides that after the data of vesting and before the date of assessment of perpetual annuity under clause (2) of section 28 an interim annual payment of compensation may be made Collector may in each case, order to the trustee-intermediaries of an amount which is equivalent to seventy-five per centum of the approximate amount of the said annuity to be calculated in the prescribed manner. This will, to a large extent, depend upon the timely submission of the required information and particulars by the ex-intermediaries and efficient functioning of the compensation Another doubt which is entertained is that any payment of annuity from Government exchequer in a secular State may run counter to the provision of Article 27 of the Constitution which debars collection of taxes for promotion or maintenance of any particular religion or religious denomination. But this is a bogey which does not seem to have any foundation. payment of annuity towards compensation to an intermediary cannot be said to specific appropriation of the proceeds taxes paid by the people towards prom tion or maintenance of any particul religion. But the crucial point at issue whether the payment of perpetual annui to all the trust estates which will be abo shed in due course will not be a strain the State exchequer. After adoption the policy of land revenue abolition tl State Government will not get any lan revenue from these estates but noneth less will bear the brunt of paying annuil to them for all time to come. This is th real Achilles' heels of the whole problen

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TIPS FOR WALKING TOURS

What I would do as a youth whether 14 or at 40?

I would plan walking tours during thany of my holidays, a short tour during that holidays. As a student I would plan walking tours during the Puja holidays, during the winter holidays or during the summer vacation. As an officer I would plan walking tours during the Puja holidays and during holidays where Sundays can be combined to extend it to 3 or 4 days. For walking tours my equipments would be:

- (1) Clothing ... 2 pairs of Khaki half pants, 2 pairs of canvas shoes, 2 vests, 2 Khaki shikari shirts consisting of straps and pockets.
- (2) Bedding ... A canvas bag 6'×3'
 which can be carried
 empty and filled with
 straw when needed to
 become a mattress.

For protection, I would carry a light canvas with

metal rings sewn all round. Spread over two up-right and one horizental bamboo and tied to bamboo or wooden logs, would give me a tent to sleep under. I would also carry a strong Lathi.

(3) Fooding ... For food I would carry and some chillies. For drinking, I would carry a bottle with a cork. It could be filled as I went from camp to camp. For cooking and cating, I would carry an aluminium pot and an aluminium tumbler and match box. I would also carry a bottle of kerosene to anoint exposed parts against mosquitoes night. For medicine I would carry some preventive against Malaria emergency some and

medicine for Bacillary dysentery. I presume I have had my usual T. A. B. C. injection as protective against Cholera and typhoid.

With these equipments, I am ready to travel by train or bus to my starting point and then walk from camp to camp. For cooking and drinking water I would scoop out the sand near a running stream and fill my bottle and my cooking For sleeping at night I will pitch my tent and get some straw to fill my sleeping bag. Before pitching tent at night I must give myself sufficient time to collect firewood and cook my food. I must have some money with me to buy banana or other fruits, as well as fish, rice, etc., whatever may be available on my route. I would try to get some work on the way to earn some money to last my tours. It is easy to get work near a Railway station by working as a porter. For that purpose I might get a licence from the Railway authorities. any earth work is going on I might get wages for digging or carrying earth. If I am a singer I could offer to sing and accept whatever is given to me. If an artist I could draw portraits or sceneries and earn a little money. If I know the art of story telling I could tell stories

Khathaks used to do in the past. If I carry a bow and arrows I might show green pigeon or a jungle fowl for food. am not planning for a gun and cartrid as it is risky to go about with a gun price of cartridges is prohibitive.

What I am saying is not entirely theo tical as I have lived like this on a numl of occasions. Instead of sleeping in own tent I could spend some nights or tree and watch what is passing under tree.

I suggest to make a youth hostel keep some camping equipments to be out to youth hostellers who may want spend a few days near the youth hostel yout in it.

Excellent walking programme could planned in the Ganjam Malias includi Parlakhemidi hills, in Phulba the district, round the coast of Chilka, in t Chandaka-cum-Dompara forests, at foot of or on the top of Gandhamarda hills, in the Juanga pirh, and nearest opposi Cuttack, in the Kapilas hill Mahanadi, and still nearer in the Dalijoo forest near Chouduar, round the Similip hill of Mayurbhanj district. Also there at very suitable walking tours which can I have give organised from Baripada. only a very few ideas, but numerous spots in Orissa in every distric

FAMILY PLANNING AND THE QUALITY OF LIFE

lore than half the population of India ay consists of young people below 19. inking of the future, if we can't build country where these young people have hething to look forward to and fit into th it's pretty certain that India will combustible country. One in nine of educated in India is unemployed. moment the future does not look too the for the young. Opinion leaders saying that, if the sixties were the the of food shortage, the seventies will the decade of unemployment. Commission did not hold The bright hopes in the coming decades income countries whose per capita income is less than ollars a year. hundred American a

This is what makes me wonder if we we ere not

journalists, when we said that Dr. Sripati Chandrasekhar was too gimmicky and dramatic in his approach to stemming the growth of population in India. Mr. Robert Mcnamara is saying the same thing in the World Bank meeting at Copenhagen: nation States are still so taken up with political problem that they haven't on to the really big problems which will plague the world in the years to come and plague them as no problems have over plagued the human race. Also, the figure of those living below the subsistance level will rise.

So when we talk about the population problem of India and planning this is what worries me must what will be the quality of life India will have fifteen or twenty from now, to look no further ahead.

father, and to tear the charter of his own and children's liberty.

big difference with Europe is, I think, just that the quality of life. Much as some of them dislike it, the American have not really repudiated war and ethnic tensions will grow almost certainly there. Whatever may be the indications to the contrary, it is most unlikely continent of Europe will see a full-scale shooting war and so attention given to the problems of the quality of life which the different systems, socialist, capitalist and hybrid are attempting solve in their own ways. European cities have not become a nightmare in the way that Calcutta, Tokyo or New York have; the countryside is still attractive and more and more within the reach of citizens. There are jobs, and there is the pleasing prospect of greater leisure and of ways to get the best out of it.

This is not so in India. The other day I saw a two-minute quickie about The Dying City which conveyed, in shrill tones, the fact that everything in our larger will get much worse before they get any better. In short, even if the birth in India can be made to fall from 39 per thousand or so of now to 25 by eighties the population the will keep growing and the strains of metropolitan life, already pretty intolerable, will grow even more so. Life in the villages too, will grow more troubled. If you live Kanpur or Calicut in Calcutta-Bombay-Madras, you will know or Lucknow that the spacious day, of the thirties and even the forties are foreever gone...The young, in the future, will have a tougher

time than we did and that is not what dreamt of. The Secretary of Ministry Health said, not long ago, that the census came as a shock to the plant and all plan targets and calculations to be revised. The census of 1971 me well come as a shock, too.

Even if it sounds like the obvious should be said that getting across message to 100 million couples (in reproductive age) or even to the million who are reckoned as "eligible" a tremendous task, the like of which been attempted only perhaps by Chinese and they have chosen the way total indoctrination and regimentation

The problems of detail are infinite. Japanese, for instance, the people have had the greatest success abortions, say that it's not much legalizing abortion and using it to cut births if there is not a good medi service to do the superivision. They legalize abortion in 1949 and for ten years or they didn't have good medical hospital supervision. Can we. attempt it? Take the loop. A few year ago it was the godsend, the real break the figure through. But if you look at insertions ha now the number of IUCD every India fallen in practically perforation in State and the side effects, bleeding, drop outs and so on are legion So much so that the loop is not looked with another with anything like the favour it once was In Japan the Government has officially approved the loop, in Singapore

Voice of the people is the voice of the God.

the loop is considered passed and blesome—the emphasis there is on pill and, experimentally, on injections.

der all, both those methods are more renient. The injection, for instance. be once in three months. The problem present is that it can throw the mensicycle out of gear. But then what may feasible in a small city-state with a highly developed mass media system where the people are already sold on where the people are already sold on main trouble which afflicts the loop shadows, in fact, all the other weapons we want to try. What is good for a programme may fail utterly in a seffort, that is the bane of the loop.

raise the age of marriage. But then Sarda Act did so years ago, yet thous of marriages openly take place in where the parties are under age. It was is now illegal, yet it is as wide as ever.

problems have a hundred rough edges mysteries. I was reading the other a report on retired people and penders of Bombay city; the sample covered hundred of them. Even though they distress, still have a social position and within an extended family. In the m since it is still the family which

takes care of the elderly, I think it would be foolish to imagine that the doctrine of family planning can take quick root. In the rural areas there is also no real answer to the position that more hands in a family mean more income. For those who have few resources it seems more profitable to have a larger family. Why is it, to take another rural problem, that family planning has made relatively little headway among the Harijans than among the others? This may be a generalization but it has a hard core of truth and I am trotting these examples out to indicate that the problem of pursuading people to control the size of their families is a much bigger and more complex problem than most of us imagine.

I feel, in fact, that the task of persuasion has not been done well. True we now see hoardings and posters even in the most unlikely and remote places and there is much more of a stir about family planning than there was a few years ago (in fact it will even be a mystery why, in the first decade after independence, the Government remained so lackadaisical). In the business of family planning propagation it is said by the experts that the standard media have proved far less effective in India than the non-conventional ones like painted on village homes, word of mouth communication and so on. Unfortunately research on the mass media and family planning is poor in India and is certainly not of the depth or quality as to indicate which have been the really significant ways of getting across.

"The youth of a nation cere the trustees of posterity."

Benjamin Disraeli

And so sometimes I wonder if we should not go on keeping our fingers crossed and hoping that the scientists will come through with a really fool-proof remedy: the certain pill, a "morning after" pill, the slow-acting drug which remains in the body for a long time, the injection, with no side effects or something like that.

There are hopes that a break-through might emerge and may be the chance would improve if there were set up really powerful research laboratory und UN auspices which would get together to best workers of the world and try solve this problem, which is the curse the entire underdeveloped world.

A microwave system is being installed between Bhubaneswar and cuttack to provide for the large number of circuits that are essential for between the two stations that will be required for handling the traffic that ling service between the two stations on introduction of the subscriber trunk dial-auto exchanges that is now in progress both at Bhubaneswar and Cuttack, equipped capacity of 132 channels.

A microwave system to operate between Cuttack and Sambalpur has been programmed for the 4th Five-Year Plan.

The Bombay-Nagpur-Calcutta microwave system which has also been programmed for the 4th Five-Year Plan will pass through Sambalpur and will provide direct circuits between Sambalpur and important stations on the Bombay side and Calcutta side. Also circuits from this system will cuttack-Bhubaneswar microwave systems.

A Calcutta-Madras Coaxial cable scheme which will pass through Berhampur, Bhubaneswar, Cuttack and Balasore has also been sanctioned. The route survey for this system has been completed and selection and acquisation of sites for Repeater Stations is in progress.

Economy is half the battle of life, it is not so hard to earn money as to spend it well.

Spungeon

Promise of the Gandhi Centenary

Bapuji's vision of Swarajya envisaged a society where full economic benefits and. Proportunities would be available to every lizen, where prosperity would be equally distributed among all the strata of society. There all forms of exploitation would has been enshrined in our Constitution. To achieve such an ideal society, it is essential hat the schemes for economic progress and frowth are available to everybody, it is the big cities or in the remotest and the linest of hamlets.

That electricity is a basic and essential equirement, not only for human comfort, but also for economic progress and development, is now universally accepted. It orm of energy so far known. It is to efficient transmission and to

convenient and ready conversion to any other form of energy, such as light, heat or mechanical energy.

Besides providing human comforts like light and heat, the supply of electricity in each village and hamlet will give opportunity for increased agricultural production, development of agro, small-scale and cottage industries, diversification of employment, development of dairying, poultry farming, food processing and storage. At the same time it frees human beings and animals from unnecessary drudgery. Electricity, in general, would result in increased prosperity, human comfort and dignity, bringing us nearer to Gandhiji's dream of Swarajya.

GANDHIJI'S PHILOSOPHY

GANDHIJI Some people might think that Some people might think that Gandhiji was opposed to mechanisation and

Taxes are the sinews of the State.

21

modern techniques, including electricity. This, however, is not correct. He was opposed to mechanisation whenever it tended to concentrate power and wealth in a few hands, leading to exploitation of the masses; or when it increased or maintained large economic disparities between man and man. He welcomed mechanisation and therefore, electricity, as a means of raising production or for saving labour if it would benefit the worker.

Gandhiji wrote: "If we could have electricity in every village home, I should not mind villagers plying their implements and tools with the help of electricity. But then the village communities or the State would own power houses, just as they have their grazing pastures".

Before Independence, electricity was not accorded the due status of a basic necessity. It was then classed amongst the luxuries that were made affluent sections of only to the more society in cities, either for personal comfort or for the economic betterment of the industrialised minority. It was, therefore, treated as a commercial commodity and the production was predominantly in the hands of private licensees.

For obvious reasons, the private licensees were not interested in electrifying rural areas where investment is comparatively large, profits unassured and gestation periods long. They, thus, confined their activities to bigger cities and towns only where they could be sure of profitable

returns on investments. By and large therefore, the rural population of the country remained untouched by the benefit of electricity.

It was only through the zeal and foresigh of some of the eminent engineers in the Electricity Departments of the then provinces of Madras, Punjab and U. P. and the princely States of Travancore-Cochin and Mysore that some pioneering work was initiated in the matter of rural electrification. But there too, the benefits were limited to the more affluent sections of the rural society.

PROGRESS SINCE 1951

Ever since the era of planned development in 1951, increasing emphasis has been laid on rural electrification. A big impetus was given to rural electrification by the formation of the State Electricity Boards under the Electricity (Supply) Act, 1948, which provided for extension of electricity to areas which were either not served at all or inadequately served, with the Government providing necessary finances for the purpose through loans on concessional terms.

Besides, with the Boards in charge and responsible for the production and supply of electricity for the State, it has been possible for them to extend the supply to rural areas at cheaper rafes and on concessional terms. The emphasis laid in this matter in post-Independence period can be seen from the following data in respect of investments

For forms of Government, let fools contest, whatever administered should be administered best.

Alexander Pope

whole :hade in this sector in the country as a

ı	adde in this sector in the country	Investment	on Rural Electrification	n
	Period		Rs. in crores	
1			8:20	
1	rst Plan (1951—56)		8.01	
P	Moond Plan (1956—61)		137.85	
1	faird Plan (1961—66)			
1	the end of Third Plan and beginning of	H 1 10 10 10 10 10 10 10 10 10 10 10 10 1		
-	Fourth Plan when work was carried out		280.68	
į,	the basis of Annual Plans.		444.65*	
	Fourth Plan (2 11060 74)		- 1 - and Rs 150	0.00

Includes Rs. 2°4.65 crores allocated to various States/Union Territories and Rs. 150°00 croe Central Control of Control o Central Sector, placed with the Rural Electrification Corporation, to be disbursed as loans to State Placed. ous State Electricity Boards on specified term; for executing specific schemes for rural electri-

Till about the middle of the Third Plan, florts for rural electrification were aimed hainly towards electrifying villages for towards electrifying villages or municipal uses (such as for small reet lights) and providing power to small mills, rice mills or similar other loads. then, no specific stress was laid on irrigawiding power in the villages for irrigapurposes and the farmers were Purposes and the raining unaware of the benefits also unaware of the benefits that derive by using electricity for agriderive by using electricity for crisis in developed sticulture and food production developed unprecethe led 1964 and 1966 due to unpreceween 1964 and 1966 due to unp. the to deliber the to rely This spurred the people to rely water This spurred the people on pumping underground pumping underground hehever electricity was available.

HOMAGE TO THE MAHATMA

At this juncture, the period October 2, this juncture, the period October 100 October 2, 1970, was decided to be the Gandhi to October 2, 1970, was use the entended by the nation as the then ary Year. It was to be appect a of the nation's respect and worthy homage

to the Father of the Nation. The pragmatic principle of national regeneration that Gandhiji placed before the people of India—that the prosperity of the nation lay in the prosperity of its villages—could hardly be implemented anywhere better than in the irrigation and power sectors. Power supply to the maximum extent possible, the most needed and most efficient basic tools of production—water and electric power-to the villages, satisfied the criterion eminently.

Since then the pace of rural electrification (energisation of irrigation pumpsets/ tube-wells) has been steadily a meeting of the National Development Council in September 1965, it was decided to give top priority to supply electricity for irrigation facilities and agricultural producprogrammes were largely switched over to meet agricultural needs, with a bias for supply to irrigation pumpsets and tubewells. Electrification of villages would be incidental to agricultural supplies. 23

HURDLES

The programme of rural electrification at once faced hurdles in proportion to the enhanced target and speed of implementation. The Third Plan had provided Rs. 137.85 crores for rural electrification. With this, 44, 494 villages had been electrified and 513,026 pumpsets/tube-wells energised. At the same rate it would have been possible to electrify only 62,000 villages and energise 8 lakh pumpsets and tube-wells, leaving a wide gap of 38,000 villages for the Gandhi Centenary target. Lack of funds therefore came up as the biggest hurdle.

The next handicap was the shortage of materials, like poles, conductors and transformers that would be needed all over the country on a mass scale for implementing the Rural Electrification Programme.

These problems were gone into in detail at the Conference of Chairmen of State Electricity Boards and subsequently at the Conference of Irrigation & Power Ministers held at Nainital in May, 1969. New sources for adequate funds and streamlined procedures for procuring them as well as for the materials required for the programme were worked out. Every State Electricity Board raised its rural electrification target considerably above the normal.

With these measures and the enthusiastic efforts of the State Boards, the 100,000th mark of village electrification has practically been reached. According to figures received up to August 15, electricity had been supplied to 90, 659 village. With the momentum already gathered, is fair to expect the last lap of the pregramme to have been duly covered by the Centenary date of October 2, 1970.

This represents roughly 16 per cent India's villages—quite a contrast to figure of less than one per cent of the villages enjoying the benefits of electricit during the British regime. Most of th villages so far electrified are with compare tively large populations. Therefore, i terms of population, a much larger propor tion has come to be benefited. On roug estimate, electricity has come within the reach of 12.76 crore, or 35.4 per cent, rural population. Including the urba population of about eight crore out of th total 1961 census of 43.9 crore in the coun try, electricity is available to 20.65 crore 46.8 per cent of the country's population.

In the matter of energisation of pumpsets and tube-wells also, whereas at the beginning of the First Plan, there were only 18,709 energised irrigation pumptube-wells in the whole of the country, number exceeded 1.4 million by June year. Concerted efforts in the field are continuing. We may hope that not only the present pace will be maintained will be accelerated in the coming years.

Industrial Plantation in Orissa

hdustrial plantations have been given per consideration in Forest Develop-Consideration in Forest the First Plans of our country. In the First Second Plans nearly 662,000 acres of Plans nearly 662,000 as were of valuable species were In the Third Plan. 212,000 acres of growing species, viz., eucalyptus growing species, viz., eucas, bamboos and 6 lakh acres of econowere Species, viz., teak, sisoo, etc., were Species, viz., teak, sisoo, etc., During 1966-67 and 1967-68, During 1966-67 and 1900 of plantations of During 30,000 acres of plantauous wood were undertaken. During plant Fourth Plan, it is proposed to plant less acres of quick growing species at cost acres of quick growing species at a cost acres of quick growing species at cost of quick growing special of approximately 310 million pees.

Orissa, though our plantations have the been industrially oriented, plantations eucalyptus, hoose growing species viz., eucalyptus, auriculiboos, cassia, siamea, accacia auriculiand economic species, viz.,

DAIRO

gambhar, sisoo, semal, casuarina, eucalyptus and cashew have been raised during the first 3 plans and also are being planted up during the Fourth Five-Year Plan. The total plantation undertaken so far constitutes nearly 350,000 acres and the annual planting area is at present about 28,000 acres under various schemes. plantations undertaken in the schemes for soil conservation in river valley catchments, rehabilitation of degraded forests, afforestation for Soil Conservation in coastal sand dunes though primarily are not industrial plantations, but utilisation of excess materials after meeting the local needs is possible for industrial purposes. The plantations raised under the scheme plantation of quick growing species can be classed as purely industrial plantations. In this state till 1969, 49,145 acres of such plantations have been raised at a cost of Rs. 65.91 lakhs. But the investment

Government is a contrivance of human wisdom to provide for human wants.

such plantations has been reduced from the current year, as this has been classed in the category of state scheme instead of centrally sponsored scheme as in the previous years. These plantations in our state have been mainly geared to the needs of the three existing paper mills as these are the only large forest industries in the state.

The important consideration involved in planning for industrial plantations is that it should cater to the needs of industries and national interests. The present availability of raw materials, needs asses ment, which should also help in selection of suitable species, particularly for industrial use. At present the yeild of industrial wood in the country is estimated be (6.5 m. cu. m) 230 million cft. while the present demand is of the order of (11 million cu. m) 400 million Planning Commission has estimated that the requirements of industrial wood would be nearly (22m. cu. m) 770 million cft. by 1975 and (50 m. cu. m) 1, 750 million cft. by 1985. The short fall in the raw materials of pulp and paper industry alone during the 4th plan would be of the order of 1.8 million tonnes which includes 756,000 tonnes for paper and board, 460,000 tonnes for news-print, 3 lakh tonnes for rayon and 316,000 for paper grade pulp. By 1885, the short fall of about 700 million cft, of industrial wood is anticipated.

CHOICE OF SPECIES AND SITE

For industrial plantations, it is important that proper species to suit the

particular industries should be selected It should match the site with regard soil and climate. The rate of gro should be fast vield enough to required type and quality of raw materi econimically in as short a period as pol ble. It is essential that these plantali should yield quick returns to meet demand of the industries expedition and also to keep the cost of production minimum. For this purpose, highly productive sites should be chosen locating industrial plantations and not marginal lands which are being present. The common species chos are conife for industrial plantations eucalyptus and hard woods, like gambhar, simul cassia siamea. bamboos. Of these, plantaing of fers, particularly of tropical Pines whi yield long fibers suitable for paper rayon grade pulp, is in the experimen stage in Orissa. The planting insularis has now gone beyond stage and can be adopted scale plantation in our high The pine plantations raised 32 years back at Dhudruchampa in Similipal forests Mayurbhanj district has attained an average The growt height of 100' and girth $2\frac{1}{2}$ '. outside of pine in this plantation muc very natural habitat has been eminent foresters Prof. H. Champion and Mr. A. F. A. Lam appreciated by F.A.O. Experts. This has encouraged to take up pine plantations in Koraput and Phulbanian Phulbani districts and field trials of patul hav conifers such as P. Caribbeae, Trials and Cupuressus lusitanica.

Labour is the divine law of our existence, repose is desertion and suicide.

Mazzini

been conducted with different species last growing eucalyptus such as Eucaly-E. Grandis, hybrid, E. Saligna, Out of these, Canendulasis, etc. calyptus hybrid has been found to able for a variety of soils and climates. other Eucalyptus species have not so given any promising results except in fastest st favourable The sites. calyptus like Eucalyptus saligina yptus grandis are capable of yeilding ther rate of growth like 100 to 140 cft. annum. Further research on planting hese fast growing Eucalyptus in our is necessary. The planting of hardexcept teak has not been taken up in extensive scale. Bamboo is another Portant species for industrial planta-So far bamboos mostly Dendromus strictus have been raised as mixed lation, along with other species like calyptus, gambhar and sisoo. As a tit is deprived of its due importance very few successful plantations have established. At present all the three her mills in Orissa depend for their raw only on bamboos. Two paper Outside the state are also supplied h bamboos from this state. There is her scope for establishment of another per scope for establishment of availble mill in the state with the availble is holo resources. But this position is time. likely to last for very mboo forests time. long heted due to lack of proper regeneraafter gregarious flowering and these also being cleared for plantation of being cleared like valuable species like Valuable species like to a spe The for

meeting their agricultural needs and for basket making is another cause or destruction of bamboo forests. So there is possibility that very soon there will be shortage of bamboos for our industries and it is important that steps are to be taken for concentrated bamboo plantations.

Hitherto eucalyputs, bamboos and other fast growing species have been planted throughout Orissa and not scattered concentrated round the existing paper mills at Choudwar, Brajarajnagar and Rayagada. consume only bamboos These recently both Choudwar and Brajaranagar mills are utilising certain quantity of hard wood and small quantity of conifers along making bamboos pulps. for with has paper mill Rayagada embarked up on expansion programme and they also would face shortage of bamboos in future. Therefore, the plantations eucalyptus and bamboos should be located close to the mills, say within a radius of 30 miles so that the transport cost of the raw materials at the mill site would very much less and therefore the mills will be in a position to pay higher royalty on the yeild from these plantations. At present the royality of bamboos per tonne varies from Rs. 28 which is rather low. Location of plantations close to the mill site will enable the mills to pay Rs. 40 to Rs. 50 or more per tonne of bamboos as the transport cost which is the most expensive factor will be considerably. A rapid are extensive suitable sites slashed available round about Choudwar and indicates

By uniting we stand, by dividing we fall.

John Dickinon

Brajaranagar mills, but the position is not so satisfactory for Rayagada mill.

Planting of semal on a limited scale is being undertaken for the match wood industries. It is necessary that such plantations should be located within a distance of 20 miles from rail head so that suitable units for manufacture of match splints can be established. The extensive plantation of teak being raised in different Divisions will in future provide raw materials for the ply-wood and other board industries. Attempt has also been made to plant mulberry for the sports good industry. But it has not met with much success.

SPACING

For raising industrial plantations, there is need for determining the correct spacing of various species. In Orissa almost species are planted at a spacing of 8½ × 8½. Eucalyptus which is the main species of industrial plantation is being raised at a spacing of 6'×6' in other states particularly. in Utter Pradesh, Andhra, West Bengal. Madhya Pradesh and Mysore. The reason for the wide spacing in Orissa is that the cost per acre including the cost on establishment allowed by the centre is Rs. 200 and a closer spacing would have increased the cost. In other states, the central assistance was supplemented by funds from the State's own resources to have a closer spacing. In Utter Pradesh, the cost of eucalyptus

plantation is about 450 rupees per antiincluding fencing and mechanised options. In Bengal, it varies from 350 to and in other States the cost is between to 350. In Orissa till 1966 the cost eucalyptus plantation was only Rs 75 acre and since 1966, it has been increa to Rs. 120. A closer spacing of a sl rotation crop would give better results less cost. A co-ordinated experiment being conducted in Orissa and other sta to determine the optimum spacing Eucalyptus hybrid.

The investment in industrial plantati should be made keeping in view the benefit ratio. Highly productive sites fairly short investment periods are to favoured. In U.S.A. as high a return 12 per cent annually (compound interhas been achieved in very favour sites. As mentioned above in our state average cost of raising plantations of quarters growing species for industries have This is insufficent to t. the plantations and kept very low. application of chemical fertilizers manures which are helpful in attend higher yeilds. As a result the return fr our plantations are not expected to be the should be more investment so that plantation crop can be harvested in shor rotation of 10 to 15 years for species li eucalyptus to give higher returns.

'Universal suffrage' without universal education would be a curse.

H. L. Wayland

Maritime Activities of Orissa

Seldom comes the occasion, effectuated by emotion in the minds of the inhabitants Orissa except on the auspicious day of Kartika Purnima, which is popularly called as the day of 'Boita Bandana'. This day reminds and recapitulates in the minds of the Oriyas that this is the land that 'taketh away sin' (Sarvapapaharani desam Kshetram deveistu Kalpitam Rapila Samhita, Chapter II). This land of Jagannath and this land of Kharavela was the abode of wealth and this could be possible as history bears testimony that the hons of millionaire, better to call 'Sadhaba plas.' bus, with their sack drawn boats were throwing themselves into the mouth of the Bay of Bengal to the far off lands heo Ceylon, Java, Sumatra, Bali and Borheo On this Kartika Purnima and were teturning with fabulous wealth. The popular Orissa folk song 'Taapoi' also bears the testimony.

The old order changeth, yielding place to the old order changeth, yielding is on the new. The wheel of the time rolls on hopelessly and along with it has rolled on hopelessly and helplessly the enviable elevated glori-

The past is always ous head of Orissa. although future commemorable, the tempting and uncertain is always mixture of the past and future is the present, which is intolerant. Viewing in this light, if one thinks of the maritime activities of Orissa of bygone days, he will be astonished to know, how Orissa was rich and prosperous and what has happened to this land. But we should not be dishearten. ed of loosing our glorious legacy. So "Ye. that thou had a glorious past and a bright future, arise awaken and prosper in trade and commerce and regain thy lost legacy. by sweat and toil—be the be all and end all and the pledge on this Kartika Purnima."

Let us stop emotion and ruminate over the bygone thoughts. Let us now come to the subject—what are the evidences on record of Orissa's maritime past.

We get the faintest allusion regarding the maritime activities of Orissa during the 5th and 6th Century B. C. The Boudha Jatakas describe that the two Burmese merchant brothers Tapoosa and Palekat crossed the Bay of Bengal in the ship that carried full five hundrd cart-loads of their own goods and they landed at Adzeitta, a a port in Kalinga in the northern section of the eastern coast on their way to Suvama in Magadha.

Again in the legend of the conveyance of the tooth relic as related in the 'Dathhadhatuwariso', there is the mention of the Voyage of Dantakumar conveying the relic from Dantapura to Ceylon. The voyage was performed in one of those ships which carried on a regular and ceaseless traffic between the port of Tamaralipta in Bengal and the island of Ceylon. As Stirling observes that "In the uncertain dawn of Indian Tradition, the highly doctrines of Budha obtained shelter here; and the Golden Tooth of the Founder remained for centuries at Puri, then Jerusalem of the Budhists, as it has for centuries been of the Hindus".

The Tooth relic was enshrined at Dantapura, the ancient capital of Kalinga identified by Sylvain Levi with Palura in Ganjam district. It was taken away to Ceylon somtimes during the last quarter of the 3rd Century A. D.

Thus, from Boudha Jatakas, it is evident that Adzeitta was a seaport in north of Kalinga. But it is a matter of pity that the site of this ancient Kalinga port Adzeitta, has not yet been traced or located or identified.

Tamralipti was one of the greatest Kalinga ports. R. C. Masumdar observes that this Tamralipti is now represented by Tamuluk in Medinapur district, Bengal From this port there was a regular voyage which either proceeded along the coast of Bengal and Burma or crossed the Bay of Bengal and made a direct voyage to Malaya Peninsula and to the East Indie and Indo-China beyond it. There were other similar ports of embarkation one a Palura near Gopalpur (Ganjam) in Orissa and three near Masulipatam (Madras) from which ships sailed across Bay of Bengal to the Far East.

IMPORTANCE OF TAMLUK

The Yavanas who made their expedition to Java in first Century A. D. Tamluk. As Stirling observes, the starting place for such expeditions in the 5th and 7th Centuries was Tamluk, on the Hugli and the Javanese records show that original colonists of Java started from the Orissa or Kalinga coast in the first century A. D. Both the Chinese pilgrims visited Tamluk and found it the starting place for southern voyages (Fa Hian, 399—414 A. D. and Hieuen Tsang, 629—645 A. D.). It now lies on the Rupnarayan river but in early times, the sea which is at present Stirling miles off washed its harbour. observes that it was situated on the Hugh which gives a sufficiently correct idea of its ancient position.

So Java island is a derivative of the word 'Javanas' which Budhist Javanas named. Both Java and Bali were colonised from the Kalinga or Orissa Coast in first century A. D. According to Prinsep's Table. Hindu era in Java dates from A. D. and according to Sir Stanford Raffles in 78 A. D. The name Kalinga still survives as Kling in the Javanees records Fa-Hian sailed from Tamra Lipti to Java via Ceylon and the Chinese Budhist describes Java as full of Brahamans and Heretics.

was a Fa-Hian also observes that it Budhists. maritime settlement of the There are twenty-four samgharamas in them his country, he says; all of esident priest".

Two hundred and fifty years later, yet nother celebrated piligrim from China Peaks of Tamluk as still an important Buddhist harbour, with ten Buddhist monasteries, a thousand monks and a pillar by soka 200 feet high. It was situated on a ay could be approached both by land and later, and contained source of precious Merchandise and wealthy population. another Chinese traveller, I-Tsing, who olowed Hieuen Tsang, thus wrote of he Bengal Port:

Tamralipti is forty Yojanas south from eastern limit of India. There are five There are five rich. monasteries, the people are rich. his is the place where we embarked when befurning to China."

Indigo, mulbery, and silk, the costly hadition mulbery, and silk, the hadition of Bengal and Orissa formed the ancient haditional articles of export from ancient landuk. Although the sea has long Although the sea has left it, the town continued till 1869 the great maritime outlet from in 17 hence great maritime outer in the specific control of Orissa. Rengal, Tamluk bears evidence Orissa 10 1725 Tamluk bears evidence Connection with Orissa its Rends, by its local customs, and its by hids, by its local customs, and hidnacular speech. As Stirling by its Jacular speech. As part formed part observes Jakar under the early Mughals. Murshid Rhan annexed Midnapur from Orissa Bengan annexed Midnapur from Kasim Rhan annexed Midnapur from Casim Bengal in 1707. In 1760 Mir Kasim Burdhwan, Midnapur and Chittagong in 1765 the East India Company and in 1765 When the Diwan of Bengal, Bihar and Drissa the Diwan of Bengal, Bihar portion his was granted, the Midnapur portion ORIGGI

was considered to be part of Orissa. Many Orissa idioms survive in this region, and the surnames of the people bear witness to their Orissan origin as Maiti, from Mahanti, The children in some village schools Mindnapur district learn Bengali in the morning and Oriya in the afternoon. They still adhere to the almanac used in Orissa Until 1869, it continued to be an important commercial centres when Kendrapara canal was opened.

EVIDENCE OF VAITAL TEMPLE AT BHUBANESWAR

Radha Kumud Mukharji's book Indian Shipping speaks of the building of Boats in Orissa in the sixth and seventh century A. D. The constructional parts of the Vaital temple Bhubaneswar represents the picture of an upset boat if viewed from a distance. This signifies the art of ship-building was known to the people of ancient Orissa.

SAMBA PURANA AND HIEUEN-TSANG'S ACCOUNTS

In Samba Purana, it has been mentioned that after the idol was placed in Konarka or the Black Pagoda, priests were brought from Persia to worship Lord Sun as they were the true devotees of Sun. This conclusively proves that Konarka was a sea port of Orissa. Quite adjacent to it, the river Chitrotpala was flowing. river Chandravaga was a part of this river Stones from far off Nilagiri hills were brought to Konarka through this river. has named In 7th Century A. D., Hieuen-Ptolemy named this Konarka Konayar. Tsang's Thus from Hieuen Tsang has Chelitalo accounts it is well-known that was also a seaport of Orissa.

CHILIKA PORT

During 319-323 A. D., the maritime invasion and corquest of Orissa by Yavans under Red-Arm (Rakta Bahu) took place The King Sobhan Dev fled with the sacred image of Jagannath, Balabhadra Sonepur. Accordingto Stirling the Chilika Sonepur. According to stirling the Chilika Lake was formed when Rakta Bahu waged war with the ocean. Purushuttania Deva, who ruled over Orissa from 1479 to 1504 A. D. had proceeded for Congevarant expedition, through Manika Patana, a place on the mouth of Chilika. Lord Jagannath and Balavadra had to mortgage their ring to a milk-maid named Manika, on their way to Congevaram to take the side Purusuttam. So in fifteenth and sixteenth century A. D. Chilika Lake was a port for maritime activities of Orissa.

PRACHI RIVER: THE DOOR TO SEA-TRADE

From the accounts of 'Vakti' Doet Achyutananda, it is learnt that during Prataprudra's regime, in the early part of the sixteenth century, both the sides of the river Prachi were thickly populated. The greatness of Prachi Prachi Mahatmya, bears testimony of the commercial intercourse of Orissa with different states.

DHAMRA, PIPILI: IMPORTANT PORTS

In 1514 A. D. the Portuguese established their settlement at Pipili. Pipili

natural harbour situated at a distance four miles from the mouth of Suvarnarekhi

The Dutch, who were the rivals of th Protuguese founded their first settlement Pipili in the year 1625 A. D. but shifte their factory to Balasore by about the 163 A. D. cwing to the constant fear of Portuguese attack. In May 1633. traders establish their factory at Hariharpur and in the month o June, a second one, at Balasore.

Dhamra, was one of the important centres for import and export of salt. On the coas of Balasore besides Dhamra, there were four other important ports namely, Saratha Chehanuya and Laichehanpur. adjacent to the mouth of the river Devi Machchagaon was one of the important The river centres for export of paddy. Devi was suitable for navigation upto the 19th Century.

there On the bank of river Mahanadi cities were three important commercial namely Baidyeswar, Kantilo and Padma bati. Sailors were importing from these and utensils centres salt, spices, cocout made out of brass and in exchange from Sambalpur were bringing Cotton, paddy, iron turmericand seri culture.

As ill luck would have it, all these ports were buried in sands and since there. there was a partial halt in the commercial

march of Orissa.

ndia's Atomic Energy and Space Research

has been producing power from atom for the past eighteen months, April, 1969, when the 380 MWe Atomic Power Station, 100 km. th of Bombay, went into operation. first nuclear power station in the Tarapur also marks the beginning India's nuclear power generation pro-Namme.

Two other atomic power stations are other atomic power station at at country: one at Construction in the country. The the rate Sagar in Rajasthan and the Nadu both At Kalpakkam in Tamil Nadu both at Kalpakkam in Tamil Naud Rana MWe capacity. While the Rana with MWe capacity. While built Sagar station is being built Kalps Canadian assistance, the Kalpakkam handian assistance, the san wholly Indian effort this an wholly make the per cent of the hing from the Indian industry. With alpakkam, India's nuclear capability can and the 1944 aid to have come of age and the nuhophesy of Dr. Bhabha that "when the come of the control of the contr power productionIndia will not have to look abroad for its experts but will find them ready at hand," is largely coming true.

The Indian nuclear programme has two objectives: generation of cheap electric power, and use of atomic energy for bringing about improvements in agriculture, industry, medicine and other fields. For achieving the first objective, the country has a well-defined nuclear power gramme. The second being realized through the Bhabha Atomic Research Centre at Trombay which is the national centre for research and development work.

NUCLEAR POWER PROGRAMME

The nuclear power programme has its ultimate goal the use of thorium which India has substantial resources. The growth of nuclear power capacity has been visualised in three stages: first, setting up of dual purpose uranium fuelled plants producing power

and plutonium. Both the stations being built at Rana Pratap Sagar and at Kalpakkam and those planned for the decade are of this type. The generation of power stations will advanced thermal reactors producing more plutonium, and the fast breeder reactors producing plutoninm as well as U-233, another fissile uranium isotope, from thorium. Uranium 233 will go into the third generation of reactors—the thorium breeders which will be operating on the uranium-233-thorium cycle. These breeders will be fed only with thorium.

Tarapur, an enriched uranium fuelled station built by the International General Electric Co. of the U.S.A., is a departure from the plan as the intention was to initiate the nuclear power programme and give Indian engineers immediate opportunity of participating in the building of a well-tried out system.

DECADE'S NUCLEAR PLANTS

Recently, Dr. Vikram Sarabhai, Chairman of India's Atomic Energy Commission, made a projection of the country's nuclear plans for the decade 1970—80 which includes the setting of three new nuclear power plants with a total capacity of 1,500 MWe so that by the end of the decade, the total nuclear power generating capacity would be around 2,700 MWe. This modest plan is formulated with the twin considerations of economy and the need for maximum acquisition of know-how and experience

The nuclear power programme rests on a number of support facilities which are being built up in the country. To feed the coming stations, a nuclear fuel comp is taking shape at Hyderabad which produce uranium oxide fuel and cladd material. In the same area is located Electronics Corporation of India, Government concern which manufactural large range of nuclear electronic instrumentation and equipment.

India has modest deposits of uranit at Jaduguda and a number of other place. Uranium is being mined and processed Jaduguda. In the south of the count are monazite processing plants—Chavara, Alwaye and Manavalakurichifor separation of thorium and rare earlifrom the beach sands of the States Kerala and Tamil Nadu. Thorium itselis finally extracted at a thorium plant Trombay.

Heavy water, an essential component a natural uranium fuelled station is no being produced in small quantities Nangal in the Punjab. Two other plants will larger capacities are being built at Rajasthan Atomic Power Project and Baroda in Gujurat State to cater to the expanding power programme.

IMPORTANT LANDMARK IN NUCLEAR DEVELOPMENT

To go on to the second phase of the plan, plutonium is being separated at The plutonium plant at Trombay. Trombay plutonium plant is an important landmark in India's nuclear development as it was constructed entirely by Indian. At the time it was built (in early only four other countries—the U.K., France and Russia had operating fuel reprocessing plants.

tonium from spent fuel of power ctors, a larger plant is being built next the Tarapur Atomic Power Station.

adia is now thinking in terms of big lear powered agro-industrial complexes g large nuclear power stations with asuming centres of electricity-intensive lustries like aluminium, fertilisers, etc. dies have revealed that it such have onomically viable to of the region mplex in the western India. ate of Uttar Pradesh in north

Research and development support as trained personnel for the various clear projects come from the Bhabha Projects come from aba Centre is the erstwhile Atomic ergy Establishment which took e major research and development effort Tata this area in the Fifties from the titute of Fundamental Research. Institute, established in June 1945, is as the cradle of India's nuclear as the cradle of India's scientists are as the first group of scientists was trained and the engineers engineers was trained and late Bhabha.

BHABHA ATOMIC RESEARCH CENTRE

The Bhabha Atomic Research Centre holoys over 5,000 scientists and technical bersonnel whose work covers a gamut of whose work covers a gamut of ciplines as diverse as Electronics as diverse as three res research Actors: Apsara—a 1 MW swimming pool he reactor designed and built wholly by reactor designed and built whom Cirus and engineers, Canadian 440 MW reactor built Assistance, and Zerlina—a with reactor france, and Zerlina—a zero entrely by also designed and built entirely by

Indians. Besides the reactors, the Centre has a number of well-equipped laboratories and research facilities which include a 5.5 Mev Van de Graaf accelerator, a Food Irradiation and Processing Laboratory, a radiological laboratory, radioisotope production units, electronics development units, engineering workshops, etc.

The Centre is engaged in evolving new mutants of foodgrains such as rice and groundnut developing processes and procedures for increasing the shelf-life of potatoes, onions, mangoes, fish, meat, etc. and developing applications of radioiso. topes in industry, agriculture and medicine. More than 350 kinds of radioisotopes and labelled compounds are produced by the Centre out of which a large range is exported, many advanced countries being radiography cameras, gamma irradiation chambers, high vacuum equipment, plasma torches, nuclear data processors, oscilloscopes, etc. It has developed the country's first real time digital computer TDC-12, which is being taken up for commercial production by the Electronics Corporation of India, Ltd.

To meet the needs of the various nuclear projects in the country, it also trains annually 150 engineers and scientists for specialized work in the nuclear and space projects that are coming up.

SPACE RESEARCH & ATOMIC ENERGY

Space research and work in atomic energy have close links in India. The Department of Atomic Energy which is responsible for administering the atomic energy programme was entrusted the subject of space research in 1961. 35

The space programme is managed by the Indian Space Research Organization. Over the last few years a complex of space units has grown around Trivandrum in the South. The major unit of the complex is the Thumba Equatorial Rocket Launching Station, a U. N. sponsored rocket range for meteorological and other scientific experiments in the atmosphere above magnetic equator which passes near Thumba. Next to Thumba is the Space Science and Technology Centre which is developing indigenous space technology. A number of Indian rockets of the Rohini series have been developed and are being tested. India is also manufacturing the Centaure two stage rocket under licence from France and the propellant for it. According to the space plan announced recently by Dr. Vikram Sarabhai, India will attempt a satellite launching in 1974 when she plans to put a 30 kg. payload in a 400 km. orbit. For this purpose another rocket range is being prepared at a place called Sriharikotta about 100 km. north of Madras City on the eastern coast. Towards the end of the decade India plans to haul 1,200 kg. payloads into 40,000 km. orbits.

COMMUNICATIONS SATELLITE

In between are plans to put up an Indian communications satellite. India's space programme revolves around the country's needs to accelerate development, and communications through satellite-TV is an

important component in this effort. pilot project was undertaken to study impact of televised programmes in a sele ed rural area round Delhi a few years ba The result have been very encouraging a has led India to plan a Satellite-TV proj in co-operation with NASA. In 1973 NA will be launched its ATS-F satellite wh will be used by India to beam programn to 5,000 villages selected in clusters of in different regions of the country. overall objective will be to bring about faster progress in family planning, agric and prom tural production, literacy, Experience integration. national technology communications satellite being acquired at the Experimental Satel Communication Earth Station at Ahmee bad which also imparts training to stude from other developing countries. At At around 97 km. north of Poona, a comm cial satellite communications being built which will utilize the Intel III satellite in orbit over the Indian oce

India's atomic energy effort is in its year, having begun with the setting up the Tata Institute of Fundamental Resear in June 1945. This effort aimed at harnering the atom for development has brough about a technological spin-off with result that today the country is build atomic power plants, giant radiotelescopy cyclotrons, satellite communications of the country is cyclotrons, satellite communications of the country is atomic power plants, giant radiotelescopy cyclotrons, satellite communications ing an advanced technology and manpower.

Freedom is not worth having if it does cannote freedom to err.

Jefferson

GROUND WATER AND ITS UTILISATION FOR IRRIGATION IN ORISSA

Water constitutes one of the primary hatural resources and no form of life is possible without this. There has been an ever increasing demand for water with the harch of time. The use of water in indusand agriculture increased greatly after the second world war. By 1945, this use water had almost doubled compared with the position that was prevalent ten rears before.

It is needless to explain the importance increase in agricultural production. Increase in agricultural production is one of the most important in agriculheans to ensure self-sufficiency in agriculto ensure self-sufficiency in as of ladic. Three-forth of the population and India depend mainly on agriculture and half of the national income comes from agriculture. In our State the net cultivable area is about 16 million acres out of which baddy accounts for about 63%. Through the State is having vast irrigation potentia-lities been lities, only a small fraction has been the Third Third exploited yet. At the end of the

Plan, the potential from major and medium projects has been raised to about 1.22 million acres only. The drought condition in the last few years in several parts of the country and continued food shortage have brought into sharp focus the importance of providing greater irrigation facilities. Our planners have accordingly stressed the urgency of exploitation of both surface and ground water resources.

Lift irrigation is undoubtedly an easy source of providing irrigation facility for boosting agricultural production. This can be done either by tapping the underground water resources through installation of tube wells or by pumping from the perennial streams. Flow irrigation to the cultivated areas situated in upstreams of the rivers or at higher contours needs heavy capital investment and any such project would take pretty long period for execution. That is why the devolopment of ground water resources gained greater significance. 37 The utilisation of ground water was probably first conceived by ancient Persians. They constructed tunnels and shafts to tap ground water sources. The early Egyptians and Chinese were familiar with drilling methods and were able to sink bore holes to obtain water from underground sources.

The advance made since the turn of the century in the improvement of well-drilling methodss and pumping equipments, particularly in the deep well turbine pumps, have resulted in a marked upward trend in use of ground water for rural, municipal and industrial water supply.

For utilising the underground water resources normally deep tube wells of

12"×6" are sunk to a depth of 300 to 400 ft. Shallow tube-wells of 6" and 8" dia sunk to average depth of 100 ft. Normally direct rotary rig is employed for installation of these tube wells.

For a deep tube well, usually 80 to 120 ft of aquifer is encountered where 6" dia slotted pipes are provided and in the top portion 12" dia casink pipes are used for housing of the pump. Well screen slot openings are selected from a study of Sieve analysis data for samples representing the water bearing formation. For shallow or filter point tube wells 40 to 60 Ft. of slotted pipes are provided.

The possibilities of lift irrigation in different areas of the State together with the approximate expenditure are indicated below:

	Type of Tube well	Estimated cost (approximate)	Ayacut area in acres		Discharge in cusecs	Feasibility
			Rabi	Khariff		
	(1)	(2)	(3)	(4)	(5)	(6)
		Ra.				
1.	Shallow or filter point tube well fitted with 5 or 7.5 H. P. pumping sets.	10,000 to 15,000	25	40	1 cusces	Old river basins in the notably in the districts of Ganjam, Kora-ut and parts be Puri. May possible to Keonjhar district.
2	Medium or deep tube wells fitted with 12.5 or 15 H. P. pumping sets.	35,000 to 40,000	60	100	1 to 1.25 cusecs	Balasore, Cuttack and portion Puri district.

Potential created for irrigation in the state by tapping underground resources (upto March are as foilows :-

	TO THE TOTTO	73 .—				
ime	of district	Completed & energised projects	Civil Works completed but not energised	Civil Works incomplete not energised	Civil Works incomplete not energised	Total Ayacut in acres
1	(1)	(2)	(3)	(4)	(5)	(6)
			Acs.	Acs.	Acs.	Acs.
		Acs.		900	100	4,300
Cutta	ick	2,600	700			750
Puri		720	30			3,630
Ganja			260	400		
Kon	•••	2,970		360		720
Koraj	Put	30	330	1,160	60	3,080
Balas	ore	1,680	180	1,100		
1 3		-,			160	12,480
1	Total	2,000	1,500	2,800	version.	25 %

After completion of the incomplete Proects, facilities for intensive and assured rigation for an ayacut of 12,500 acres be available. But from the completed projects practically there is hardly 25% utilisation as people are thinking lift irrigation as a means for Rural Electrification.

The path of duty is never sprinkled with rose-water, nor do roses grow in it.

OUR INDUSTRIAL RELATIONS

With a view to implementing the labour laws effectively, Government of Orissa have strengthened the State Implementation machinery by establishing two Industrial Tribunals and two Labour Courts at Bhubaneswar, independent of the Administrative Tribunal. Setting up of another Labour Court for quick disposal of cases is also under consideration.

The Government of India have appointed a Regional Labour Commissioner with headquarters at Bhubaneswar for implementation of the jurisdiction of the Central Government in Orissa. The mine workers and employees of the industries coming under the Central jurisdiction are being benefitted by this arrangement.

Orissa had no separate labour policy prior to 1967. It was felt that a definite labour policy should be evolved and made known to all concerned. Accordingly the matter was placed in the Labour Advisory Board meeting on 2nd and 3rd June, 1967 and the following decisions taken:

- (1) There should be no victimisation or appeasment, in other words all labour laws should be implemented in letter and spirit.
- (2) All possible delay should be avoided at the stage of conciliation and adjudication so as to afford quicker relief to the workmen.
- (3) All tripartite decisions meant for the purpose of maintenance of industrial peace should be given due weightage.
- (4) Ample opportunities should be provided to the workmen and the employers to sit across the table and discuss matters of mutual interest having thereby very little room for dicord and disharmony.
- (5) All kinds of physical duress including Gherao shall be discouraged.
- (6) The management and workers should be educated in the manner and method of management of labour and adjustability.

The code of discipline in industry is being followed in letter and spirit and time limit has been fixed for speedy disposal of industrial disputes viz conciliation adjudication etc., at all levels.

Archaeological Treasures of Chandeswar

Khurda sub-Village Chandeswar in division of Puri district is the abode of the famous Chandeswar Mahadev temple. It is about one Km. from the Bhubaneswar. Berhampur Road near Tangi and can be approached round the year by service Bus. The vast ruins of the shrine can be outamidst a thick mango tope at the skirt of the village and near a The location of the monument naturally enhances the calme and seren atmosphere of the place.

The main temple which stood at the centre of the compound no longer exists. The gradual damaging condition of it enabled the local people for its break down and possible reconstruction in future. Accordingly, they formed a hittee, collected donations from the local people and made some attempts for reviviing the shrine. glory of this age-old Artisans well trained in this work frem Bhubaneswar were engaged and the temple was reconstructed up to a height of five

feet or so at a cost of Rs. 8,000 (towards labour charges and binding materials). But the idea seems to have been abandoned since then, probably due to lack of finance.

After the collapse of the main temple, dressed stones and decorative well as loose sculptures are now scattered in and out side the compound. The compound wall some how or other is manageable condition but have been noticed at several places due to growth of vegetation and continuous negligence. The wooden doors fixed to some of the passages have been damaged missing. Main compound has been provided at the East and visitors after taking their bath in the neighbouring tank pay their homage to the deity by passing through this way.

The Sivalinga traditionally known 'Chandeswar Mahadeva' is in the usual condition even after the removal of main shrine and subsequent

The wooden debris and reconstruction. Viman over the Siva Linga is also intact. a height The Linga is projecting to about 2' above the 'Yonipitha'. The Yonipitha is encircled by a copper snake whose head forms a canopy over the Linga. The wooden mandap has been carefully protected from natural agencies of decay and destruction with the provision tinned roof.

The Jagamohan which was constructed in front of the main temple has also gone out of existence up to the surrounding ground level even before the collapse of the main shrine. Except the ground plan nothing significant can be gleaned from its ruins. At the centre of the Jagamohan, a fragment containing three figures from the Navagraha slab is kept, over which of later addition has been installed facing the deity.

The other miniature shrines for Durga, Laxminarayana, Patitapayan, etc., are of definitely later additions. They are devoid of architectural beauty and workmanship but many of the loose sculptures preserved inside belong to much earlier thatched Rosoghara and Yangya Mandapa along with a well has also been noticed in the compound.

In the Durga Devi temple which was probably served the purpose of Nat-Mandir in earlier days, has been enshrined with standing Mahisa Mardini Durga image closely affixed to the back wall. Durga is seen trampelling over the bufalloformed-demon which is a conventional form followed by the artists. Except Sula. Khadga and Chakra all other attributes and decorative ornaments are difficult to be traced out as they have been completely rubbed off due to continuous use of vermillion and other cosmetics.

The inner space of this edifice preserve two Parsvadevatas, Ganesh and Kartikey of the main temple along with a number o beautiful decorative sculptures like Vishni Kartikeya, Ganesh, Pravati, Rati-Kamadeve Vinavadini, Lady combing hair, carefull collected from the ruins of the collapsed temple. But during my subsequent visit to the place I failed to notice three of these beautiful sculptures Rati-Kamadeva, Vina vadini and Lady Combing hair. They al once adorned the niches of the mair temple. At the entrance of this shrine figures of Ganga and Yamuna have been installed. To a little distance on the same level out-side the beautiful carved 'Tulas Chaura' indicates significantly the architectural beauty of the main edifice.

Kartikeya (60"×30"), the Parsvadevata of the western side is a four-handed standing figure carved on a double petalled lotus pedestal. Both cock and peacock are depicted as vehicles of the deity. Trident, Varada and Abhaya Mudra are the attributes of the three hands while the fourth one rests on the cock which is lifted by lady attendant. The attendant carved to the right is much damaged but its lower right hand touches the beak of the peacock Kirtimukha, heavenly damsels and conch blowers are carved at the top of the image. Among the decorative ornaments and cost tumes, trijata on the head, bangles in hands, four stranded girdle fitted with tassel, tinkling bells and circular medallion at the centre on the waist, multis-(locket), tranded necklace with padak Kiritamukuta and Pounji, etc., enhance the beauty of the image.

the southern side preserved in the Durga of temple also appears in the same type of

buble petalled lotus pedestal. Its measure ment approximately correspond to that of le Kartikeya figure noted above. Of the our hands, three are noticed with Ankush, kshamala, Pot containing ladukas (Sweet while the fourth one is damaged and bissing. Mouse, the vehicle of the deity is Flying tarved at the right hand conner. Kirti-Gandharvas, Conch blowers takha dancing figures are depicted at the Among the notable decorative orna ments and costumes, Sarpopavita, Udar and costumes, Sarpoparta, and rows bangles in each hand, beaded Vajuandha, rings (in some of the fingers), louse, bhujanga vala, and a well-designed lecklace are some of the items which Povide sufficient proof of the aesthetic ense of the people of that age.

Parvati, the Parsvadevata of northern side is exceedingly beautiful in workmanthip due to the effective provision of decolative ornaments and costumes. Such type ornaments and costumes. depicted preserved up-to-date in the temple preserved up-to-date in the study this aspect of Orissan sculpture will aspect of Orissan sculpture beyond the true cultural heritage and artistic herit of the people of that age. This image with 10 other decorative sculptures the Gajavidala, Naravidala, Nayika etc., the still kept near the southern compound be fully exposed to sun and rain and throuded by wild creepers hanging from the Bernati was the Wall top. The image of Parvati was huch damaged at the fall of the temple but the damaged at the fall of the temple damaged pieces are carefully collected and bound in their places. The entire image protections because of the protection of has been given a cement concrete protection at a given a cement concrete protection. tion at the back and two sides. The image in four hands is carved standing on a double hands is carved standing variable betalled totus pedestal. Variable attri-Sarpa, Ankusa and Padma are the attri-

butes in four of her hands. Lion, the vehicle of the deity is placed to the right. Two lady attendants are carved standing one on each side at the background of whom miniature "Khakara mundis" are observed. Flying Apsaras with wreath in hands, Kirtimukha flanked by conch blower are noticed at the top. Vahi-chudi, pouse set with oval beads, Krushnachulia vala. Galahara (necklace) fitted with beaded chains and a multipetalled locket at the centre; three stranded Upavita with a knot at the centre; Kiriti on the head, Kanaphula (ear ornaments) ; Vajubandha (armlets); Kativastra and a beautifully designed girdle fitted with circular locket inside of which a lion head is depicted, oval beads, tinkling bells and tassels containing top knots are the most noteworthy decorative ornaments and costumes.

Images of Nrusimha & Varaha Vishnu are loosely kept in one of the miniature shrines of either sides of the Laxmi-Narayana (of later period) carved in sitting Narayana temple. posture on a lotus pedestal is worshipped at the centre of the temple. Narayana has been provided with the usual Samkha. Chakra, Gada and Padma. comfortably sits on the right foot of Narayan which has been placed on the left lap. To the left of this, an image of Trivikram has also been affixed to the back wall. To the right of Laxmi Narayan two separate Vishnu images are in wor-The image at the extreme is comparatively bigger in size and superior in workmanship. Both of them carved standing position on lotus pedestals. Bigger one has been provided with Garuda. Kiritimukuta as well as devotees. 43

(See page 38)

Expansion of Educational Facilities

A spectacular expansion in educational facilities has marked the two decades of planning in India since 1951,

The average growth in enrolments was as high as 7 per cent—each year—since 1951—the total enrolments in the country having risen—nearly—four times, from 25.5 million in 1950 to 70.7 million in 1965 and 84 million in 1969-70.

The highest annual growth rate was in the professional and special courses at college stage being nearly 17.8 per cent, followed by 16.1 per cent in the preprimary stage of education. The annual growth rates in the enrolments in high and higher secondary education, higher education, middle and primary classes were 10.0 per cent, 9.3 per cent, 8.4 per cent and 6.7 per cent respectively. In 1965-66, 76.7 per cent of the children in

the age group of 6—11 and 30.9 per cent of the children in the age group of 11—14 were attending classes, as compared to 43.1 per cent and 12.9 per cent in the corresponding age groups in 1950-51.

ANALYSIS OF EDUCATIONAL EXPANSION

This educational expansion was inevitable, as it was impossible to resist the urge for education, specially among those classes to whom it had been denied before Independence. Popular pressures in a democratic society, based on adult franchise, also accelerated the pace expansion of educational facilities, particularly in the middle and higher categories.

A statement, showing the growth the enrolments in 1950-69, which reflects of demand for and response to expansion

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tious categories of educational facilities, is tabulated below (in thousands).

Growth in the number of students by levels of education from 1950-51 to 1969-70

(Figures in '000)

White State of the				
alegory of education	1950-51	1965-66	1969-70	Average rate of annual growth from 1950-51 to 1965-66 (percentages)
(1)	(2)	(3)	(4)	(5)
,		263	350	16,1
timary	28	50,470	47,660	6.7
ty classes (6.11)	19,155 (43·7)	(76.1)	(78·2) 13,210	8.1
classes VIII (11-14)	3,120 (12·9)	10,530 (30.9)	(33.6)	10.0
Hioh.	1,2-7	5,280	7,110 (20·2)	
31X-XI (14-17).	(5.6)	(17·0) 1,240	1,865	9.3
Science and	325	(2.3)	(3·1)	2.1
tsional and Special		2,176	3,000	2.1
TOOUS TO SCHOOL	1,597	-,		17.8
1.	61	715	1,000	
thes at College	01			7.0
	- 4 9 " yg"	70,674	84,195	. 10
Total	25,543	70,01		cen cen

heludes adults studying in centre; for adults schools Will be noted that the highest annual and will be noted that the ingli-becial; rate was in the professional and rate was in the protest level the about 17.8 per cent followed by 16.1 the pre-primary the cent in growth rate annual of education. The rate in the enrolments and higher secondary, college, univer-

10.0 per cent, 9.3 per cent, 8.4 per cent and 6.7 per cent respectively.

In 1969-70, 78.2 per cent of the children

in the age-group of 6-11 and 33.6 per cent of the children in the age-group of compared and VI-VIII, respectively, as per cent with 43.1 per cent and 12.9 in the corresponding age groups in 1950-51.

RISE IN EXPENDITURE

The total expenditure (Plan & non-Plan) increased from Rs. on education crores in 1950-51 to Rs. 850 crores 1968-69.

The development expenditure the First, Second and Third Plans and the three Annual Plans (1966-69)Rs. 152.9 crores. Rs. 273.0 crores, 588.7 crores and Rs. 306.8 crores respectively. There was also a steady rise in per capita expenditure-in 1950-51 it was only Rs. 3.2, in 1955-56 Rs. 4.8, in 1960-61 Rs. 7.8, in 1965-66 Rs. 12.1 and 1968-69 Rs. 15.9 on education.

Thus, in the period 1950-51 to 1968-69, educational expenditure had risen 6 times and per capita expenditure nearly times.

educational expenditure is related to the national income, the percentages show an even more impressive rise from 1.2 per cent to 2.9 per cent in 1965-66.

LACUNAE IN EDUCATIONAL EXPANSION

While there has admittedly been remarkable progress in the totality of educational facilities, it is obvious that elementary education has not expanded to keep pace with the growing requirements of the population.

The Constitutional directive of universal elementary education has still to be fully implemented. Elementary education girls has lagged behind, despite importance attached to it since

transformation is in many ways depend on education of future mothers, and lag in this field leads to problems will it is not easy to solve speedily.

Another aspect of the expansion wi deserves more attention is the maintena of the quality of education. Lack buildings and equipments and dearth some of qualified teachers are problems which have to be given m attention in order to maintain and impre the quality of education.

Some efforts have been made in States and at the Centre to enrich curric teach and improve text-books and taken been methods. Steps have vocatio and provide educational guidance services, and develop facilities science education and for Post-gradu education and research.

The responsibility for expansion primary education is basically that of t State Governments and Union Territories

PROPOSALS FOR FOURTH PLAN

In the Fourth Plan, 1969-74, activities like improvement of curricula and lex books, in service education of teachers and research in methods of teaching, which not require large funds but have a impact impact, will be encouraged. Educations programmes will be increasingly related to social and economic objectives.

This will require, among other thing coordination with development programmin other in other sectors and the drawing mar a perspective plan on the basis of the and the power needs, social demand, ORISSA REVIEW—NOVEMBER, 1970 ely availability of financial, material human resources.

ome of the weaknesses in the cational programme are also sought to remedied in the Fourth Plan in which

Rs. 823 crores have been allocated for education, of which nearly one-third is for elementary education. The distribution of allocation in the Forth Plan is summarised below:

remedied in the Fourth Plan	I III WINCE	
	Outlay (Rs. crores)	Percentage distribution of the outlay (3)
(1)	234.74	28.5
education	118:32	14.4
-ary coucation	183.52	22.3
they concarion	21.17	2.6
tacher Training	8.30	1.0
ocial education	118.75	14.5
- Stammica	12.49	1.5
ultural Programmes	125:37	15.2
education (100.00
Total	\$22.66	ucation; raising standards of
	of science ed	ucation; raising and research

In the Fourth Plan priority has been to the expansion of elementary of the expansion of elementary of the elementary of the expansion of elementary of the expansion of the elementary of the expansion of the elementary of the ele

It is further proposed that a survey bould be undertaken in the Fourth Plan in the spect of buildings and equipments in the thornal institutions with a view to the control of the control

Other programmes of education in the plan will be improvement of teacheducation; expansion and improvement

of science education; raising standards of Post-graduate education and research; development of Indian languages and book production, especially text books, and consolidation of technical education, with a view to linking it with the needs of industry and its orientation towards self-employment.

In creased efforts will also be made to involve people in educational programme and to mobilise public support for this purpose.

Community Development: The Concept

The community development feeling and the tradition of co-operation existing in small villages was described by Rabindranath Tagore in an article, "Swadeshi Samaj", written in 1904. Dwelling on the bonds of kinship in the villages, he said, "To establish a personal relationship between man and man has been India's constant endeavour. One has to retain contact even with distant relatives; and our ties of kinship include neighbours and many others in the village, irrespective of caste or circumstance. We accept relationships of utility only after we sanctified them by a kinship of the heart." have

Lokmanya Tilak wrote latter, "Gramsanstha (village organisation) has been the fundamental basis of our ancient polity. The village system was utterly destroyed during British rule. The peasant became dependent and helpless. The next step after independence would be revival of the Gram-sanstha. The village should be the

unit of Swaraj, and education, product health, police duties, famine-relief, ma gement of forests, in fact nearly all problems should be under the jurisdict of the Gram-sanstha or the Gram Manda

The idea of community developmed occupied Gandhiji's mind all his Given below are few of his thoughts:

"Village organisation seemed a simple word, but it meant the organisation of the whole of India, inasmuch as India predominantly rural. Indian village had so much vitality and character that had persisted all these long years These village weathered many a storm. were so many village republics, completel self-contained, having all that board want - schools, arbitration 'Poor Law' if sanitation boards and no deed, but ample provision for the relief of the poor personality in himself. He was the servant to in of the people whom they could go in times of dies times of difficulties, whom every child

lie village knew and loved. He was incorruptible, he was a gentleman."

(From Gandhiji's address to students, sulcutta, September 17, 1925).

Gandhiji wrote in 'Harijan' of December

Long ago, how long history does not record, the Indian genius worked out the village and local panchayats. It remained our forte through many a turbulent period. Kings and dynasties fought and failed, empires rose, ruled, misruled and disappeared, but the villager's life maintained is even tenor, away from the din of battle and the rush of rising and falling empires. The had a village State which protected his and property and made civilised life possible."

In his broadcast to the nation on October 1952, when on Gandhiji's birthday the was minumity Development Programme was Dr. Rajendra Prasad said.

India lives largely in villages; and hough during recent times the urban population has been increasing at a rapid the, it is still true that India lives mostly villages. Anything done to bring about all-round improvement of the villages and those who inhabit them should not be welcomed, but given all possible the ople at large."

Late Shri Jawaharlal Nehru wrote about ommunity Development in March, 1954:

The conception is much vaster. It means really covering the whole of this great country and building of a new India from

the roots upwards. There can be no greater or more fascinating adventure than this. Those of us, who are partners in this work, must therefore have some sense of pride in it and a feeling of exhilaration that they are participating in a historic task. Essentially what we are endeavouring to do is to bring about a peaceful and yet far-reaching revolution in this vast land of India. If we succeed and succeed we will, then we shall have done in our generation something worthwhile and something that will deserve permanent record. We work in our respective areas, a village or a block or a project area or a State, but, wherever we might work, we have to think of it as a part of the larger whole. We have to develop, therefore, an integrated view of our work. We want good men at the top to guide this great movement. But we want even more good men at the village level. We have to train up scores of thousands of village leaders who have a measure of initiative and pride in their work."

The Fourth-Year Plan makes observation on Community Development and Panchayati Raj as follows:

"The Community Development Programme and Panchayati Raj institutions have provided a new dimension to rural development and introduced a structural change of considerable importance in the district administration. Within the limitations of resources the programme has attempted to do something which in many cases, had never before been attempted. There has been sizeable contribution from the local communities to the developmental effort."

Someswara—The Mine of Sculptures

Somesvara stands near the left bank of the Prachi, very close to the Kakatapur Astaranga road. about 2 Kms. from Kakatapur in the district of Puri. This site can easily visited by availing the service bus from Bhubaneswar to Astaranga. Once upon a time, the place was full of ancient monuments and other past relics as indicated by the debris and mounds full of ancient bricks. Besides, it is a store house of images. The present Siva temple goes by the name of Somesvara. It has been renovated and rebuilt on the original ruins. Beautiful Naga images, Ashtadikpalas, Nrityaganesh, Brahma, happy Varahi and sensitive erotic couples, sculptures have been set in the southern northern and western outer walls of the temple.

The Jagamohan of the temple has be reconstructed on the original plinth fitl with the old stone door jamb carved scroll works and having the Saiva Dvarapalas. The following loose scutures have been set on the brickwalls the Jagamohan:—

- (1) Hari-Hara
- (2) Vishnu
- (3) Ashtikajaradakaru
- (4) Trivikrama Vishnu
- (5) Varaha-Vishnu
- (6) Nrusingh Vishnu
- (7) Audhakasuradhamurti
- (8) Yama

As I would not be a slave, so would not be a master. This expresses my idea of democracy. Whatever differes from this to the extent of the difference, is no democracy.

-A. Lincoln

Va vosisso

Besides, images of Uma-Mahesvara, buya, Hari-Hara and Anantasayana Vishnute to be found inside the Jagamohan of temple. The artistic and beautiful presentation of the Anantasayana Vishnularks a great epoch in the iconographical istory of Orissa.

To the east of the main temple, a apidated brick temple dedicated to the ddess Kali, still sands as the remnants the past relics. The presiding deity is eight-handed Chamunda holding detaka, sword, Dambaru and blood-pot in right hands while the left hands are lown in Japamala, head and one hand

touching the mouth. The depictions of the left hands are similar to that of the same image worshipped as Jagulai which I have come across at Chahata near Amaresvara of the Prachi valley.

Thus, the site Somesvara is a mine of images of antiquarian and historical value. The credit for making Somesvara, a historical site goes to the Somavamsi rulers of Orissa. The place Somesvara testifies to have been the centre of cultural and religious activities of Somesvara, a ruler of the Someavamsi dynasty ruling Orissa in eleventh century A. D.

FOUR DISTRICTS SELECTED FOR CONCESSIONAL FINANCE FOR INDUSTRIES

On the basis of the proposals received from the States, 78 industrially backward districts in 14 States of the country have so far been selected for concessional finance from financial institutions for starting small and medium scale industries. Bolangir, Mayurbhanj, Dhenkanal and Kalahandi districts of Orissa have been selected for this purpose.

The concessions offered by certain All-India public sector financial institutions for starting small and medium size industrial enterprises in these backward dittricts include lower rates of interest and a longer similar concessions by other financial institutions is also being considered.

The backward districts have been selected in pursuance of the decision laken by the Committee of the National Development Council in September 1969 when they considered the reports of the two working groups which were set up by the Planning Commission to study the question of regional imbalances.

Administration of Law in Orissa:

Latest Round 41

With a view to ensuring better administration of Hindu religious endowments in the State, the Orissa Hindu Religious Endowments Act, 1969 was enacted during the year 1969. Instead of having a single functionary as in the old Act, provision has been made in the new Act for establishment of a Board of Management which shall look after the administration of the Hindu Religious Endowments in the State. Functions of judicial nature have been contemplated to be entrusted to the Religious Endowments Tribunal provided under section 20. The Act now awaits implementation.

For efficient management of the Debottar Institutions in the State, Regional Advisory Committees have been constituted by the State Government in the Law Department during the year 1969 under rule 107-A of the Orissa Hindu Religious Endowments Rules, 1959 for the following subdivisions.

- 1. Baripada
- 2. Dhenkanal
- 3. Bolangir
- 4. Bhubaneswar
- 5. Nayagarh Tahasil
- 6. Daspalla

- 7. Puri Sadar
- 8. Athgarh Tahasil
- 9. Balasore
- 10. Nilgiri

STATE LAW REVISION COMMITTEE

A State Law Revision Committee had been constituted under Law Departmen Resolution No. 11124-L, dated the 29th September 1969 to review the State Laws enacted so far with a view to suggesting such amendments which would ensure establishment of the Rule of Law.

ADMINISTRATION OF JUSTICE

In order to provide relief to the litigant public of the District of Sundargarh, the Court of an Additional District and Sessions Judge has been established Sundargarh. It is noticed that the hearing of cases and appeals of the district Sundargarh are expedited and the litigant public have now no more grievance this score.

In view of the pressing demand of the local public, a Civil Court at Kodla by Ganjam district has been established investment of Civil Powers on the Judicial Magistrate, Kodla.

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For supplying necessary accommodation to the different Civil Courts and their staff in the State, it has been proposed to construct new buildings at Bhawanipatna, Sundargarh, Bolangir, Rourkela, Khurda, Yadmapur, Kendrapara, Boudh, Champua, Udala, Nayagarh, Ranapur, Rairakhol and Nayagarh, which have already been administratively approved. The execution of the projects depends on provision of funds for which steps are being taken to provide the necessary funds for the purpose by means of a phased programme covering a period of five years beginning from the current financial year.

During the financial year, 1969-70. Government have sanctioned a grant of Rs. 2,000 to each of the Bar Associations of Bhadrak, Nowrangpur, Kuchinda and Deogarh for purchase of law books and furniture on the recommendation of the High Court as they are non-affluent Bars. This year Government have provided a sum of Rs. 10,000 which will be sanctioned to the other non-affluent Bar Associations of the State on the basis of the recommendation of the High Court.

ORISSA OFFICIAL LANGUAGE (LEGISLATIVE) COMMITTEE

The State Government constituted "The Orissa Official Language (Legislative) Committee" with the Minister. Law as Chairman and eight others as members or concentrating on the preparation of a logy and for maintaining control over the Work of translation of Acts and Rules, etc.

The function of the Committee are :-

(i) to supervise the work of preparation of a comprehensive glos-

sary of legal terminology in Oriya for use in the translation of Acts, Rules, Ordinances, Regulations and Notifications, etc., into the official languages of the State;

- (ii) to scrutinise the draft glossary of legal terminology prepared by the Central Commission for being adopted for use in the official language of the State and to suggest appropriate modification with a view to its suitability for being so used.
- (iii) to make arrangements for the translation of Acts, Rules Regulations passed by the State Legislature and of Ordinances promulgated by the Governor of the State into the official language of the State and to scrutinise of all Acts. Oriya translation Rules, Ordinances, Regulations etc., and to and Notifications, suggest appropriate modifications if any, so as to make the Oriya translation appropriate with reference to the terminology current in the State Official language.

After nomination of non-official members, the Committee met for the first time in the May, 1970. The Committee has been meeting from time to time and legal terminology are being finalised by the Committee for preparation of a comprecement of the present for hensive glossary for the present for purpose of finalising the translations.

The State Government have started undertaking the work of translation of Central Laws into the regional language of the State on the basis of payment by Government of India.

AYURVEDIC SYSTEM OF MEDICINE

The aim of all systems of medicines is to prevent and to cure human ailments While Allopathy is the most accredited system in the modern medical science, the system of medicines indigenous Ayurveda, Homoeopathy and Unani have their own place and value and have been as effective, if not more than as the Allopathic system. The striking features of the indigenous systems are either the cost factor and easy accessibility or adjustability in every modest environment, particularly in rural areas. In recognition of the facts that indigenous systems of medicines play an effective role in combating health hazards, a separate Directorate for Ayurveda and Homoeopathic has been created in Orissa since June 1968.

For the year 1969-70, the State Government had provided Rs. 14,30,300 (including Rs. 1,74,400 under Central Sector Research Scheme) for development of Ayurvedic

system. There are 121 Ayurvedic Dispen saries and 2 Ayurvedic Hospitals, one at Puri and the other at Bolangir in Orissa. The bed strength of the hospial at Bolangir was increased from 8 to 20 during 1969-70. One along post of Kaviraj necessary nursing staff was sanctioned 1969-70 for the by Government during maintenance of the above additional 12 beds. Additional staff was also sanc-Gopabandhu Ayurveda tioned for the Vidyapitha, Puri, during 1969-70 to cope with the increasing work-load. A 30-bedded Ayurvedic Hospital is being constructed at There are two Ayurvedic Bhubaneswar. Pharmacies—one at Bolangir and the other at Puri, attached to the Gopabandhu Besides, Ayurveda Vidyapitha, Puri. several new schemes for development of Ayurveda are proposed to be implemented during 1970-71. Deputation of Ayurvedic Doctors to undergo Post-Graduate training

Inder this scheme, it is proposed to depute 2 candidates every year to undergo this raining. The aim and object of this scheme is to enrich the State with higher qualified Ayurvedic Physicians and to remove the dearth of qualified Ayurvedic remove the dearth of qualified Ayurvedic leachers. For the purpose of implementation of the new schemes during 1970-71, a sum of Rs. 4.05 lakhs and Rs. 0.50 lakhs have been provided under State and Central sector respectively.

The State Government have set up an Advisory Body entitled, "the Orissa State Council of Ayurvedic Medicine" which advises Government on Ayurvedic system of treatment. Besides, the Orissa State Faculty of Ayurvedic Medicines advises Government on registration of Ayurvedic Physicians and in the conduct of examination of students of Ayurvedic Colleges.

(From rage 33)

A carved stone in the shape of miniature temple depicting Lingapuja corresponding the one preserved in the Orissa State Museum is still lying outside the main entrance of the compound wall.

Two loose copper plate grants from a set of three issued by Sri Dharmaraja of Sailodbhava dynasty were secured from this place and published in the Kalinga Historical Research Journal by Shri S. N. Rajguru. They were originally recovered from the temple well at Chandeswar Mahadeva. Dharmaraja, the doner of this grant seems to have been flourished in the later part of 7th century and early part of the 8th century A. D. But the general

characteristic of architecture, iconography cult images and temple complex correspond to that of the famous edifice Lingaraj at Bhubaneswar. Leaving apart the date of the C. P. grants and architectural pattern of the ruined temple it can well be presumed that this place was an important centre of religious activity under Sailodvavas. These might be a miniature shrine belonging to the early days of the Sailodvavas till the bigger edifice was constructed by over it. Two designed in the characterstics of 8th century A. D. pattern lying at the back scope to Durgadevi temple provide ample such an assumption.

CALENDAR OF EVENTS, ORISSA

OCTOBER 1970

- 5-10-1970 ... Shri Prananath Patnaik, a former member of Orissa Assembly passed away.
- 14-10-1970 ... The river Mahanadi has been recommended by the Inland Water Transport Committee for declaration as a national water-way.
- 15-10-1970 ... Shrimati Kirtimayee Devi, youngest daughter of Late Utkalmani Pandit Gopabandhu Das, died. All-India Adult Education Conference started at Bhubaneswar.
- 22 10 1970 ... The Supplementary H. S. C. Examination results of Orissa Board of Secondary Education announced.
- 24-10-1370 ... The State Level Committee on unemployment meets at Bhubaneswar.
- 26-10-1970 ... Chief Minister Shri R. N. Singh Deo, told the Assembly that the Venketadri Commission Report has been accepted by Government.

The Union Government has selected Kalahandi and Phulbani districts for the implementation of Rural Works Programme during the Fourth-Plan period.

- 28-10-1970 ... Chief Minister Shri R. N. Singh Deo, inaugurated the 'Moon Rock' exhibition at Bhubaneswar.
- 30-10-1970 ... A conference of the District Collectors of Orissa began at Bhubaneswar.



Dr. S. S. Ansari, Governor of Orissa delivering his inaugural speech at the 24th All India Adult Education Conference on October 15, 1970 at Bhubaneswar.

Education Minister, Shri Banamali Patnaik presided over this conference.

NEWS IN PICTURES

The fourth meeting of the State Level Committee on Employment was held at Bhubane-

Picture snows: Chief Minister Shri R. N. Singh Deo addressing the Committee Among Employment; Shri Gobinda Munda, Shri R. B. Mishra, Minister for Labour & State Government also attended the Others: Shri R. B. Mishra, and top officials of meeting.





Chief Minister Shri R. N. Singh Deo inaugurated a Lift Irrigation Project at Boulpur in Dhenkanal district on October 6, 1970.

Among others, Dr. K. L. Rao, Union Minister for Irrigation & Power and Shri R. Jaganuath Rao, Union Minister for Social Welfare are also seen in the picture

NEWS IN PICTURES

A conference of Members of Parliament from Orissa on the Rural Electrification Programme was held at Gadasila in Dhenkanal district on October 6, 1970.

Photo taken on the occasion Power delivering his address presided over the conference shows Dr. K. I. Rao, Union Minister for Irrigation and which was inaugurated by the Deputy Chief Minister. Shri P. M. Pradhan.





Chief Minister Shri R. N. Singh Deo is seen addressing the 17th meeting of the Board of Primary Education, Orissa which was held at Bhubaneswar on 19th October, 1970.

NEWS IN PICTURES

Shri Harihar Patel, Minister for Industries haugurated the Atomic Energy and Space Research Exhibition at S. C. B. Medical College on October 3, 1970.

Picture shows—The Minister Shri Patel Read of the Publicity Division of the Phartment of Atomic Energy going round the exhibition.





Moon rock on display at Bhubaneswar on October 28, 1970. mong others Chief Minister Shri R. N. Singh Deo and Dy. Chief Minister Shri P. M. Pradhan are seen in th picture

NEWS IN PICTURES

A Mobil Science Exhibition on familiar electricity organised by the Birla Industrial Technological Museum, Calcutta in collaboration with the Orissa State Museum on display in the premises of the Orissa State Museum, Bhubaneswar

Picture shows. Shri Nityananda Mohapatra, Minister for Supply and Cultural Af inspecting the exhibits after inaugurating the exhibition on October 20, 1970.





FOUR BACKWARD DISTRICTS QUALIFY FOR SPECIAL

Kalahandi and Mayurbhanj districts have been identified as industrially backward districts qualifying for out-right grant or hosidy from the Centre.

The districts of Bolangir, Mayurbhanj henkanal and Kalahandi have also been elected as backward districts to qualify lor concessions to be offered by financial units institutions for setting up industrial units with a fixed capital investment of not more han Rs. 50 lakhs.

The Planning Commission have informed the Planning Commission have selection selection official these districts, according to an official pokesman at the State Government head-Quarters. Kalahandi and Mayurbhanj dishicts will qualify for out-right grant of the subsidy amounting to 10 per cent of

fixed capital investment of new units having a fixed capital investment of not more than 50 lakhs of rupees each. Schemes and projects for new units involving fixed capital investment of more than 50 lakhs of rupees would also be considered for both these districts on the merits each case.

The four districts of Bolangir, Mayurbhanj, Dhenkanal and Kalahandi will also be getting concessions from financial institutions for starting industries.

It may be recalled that the criteria for identification of the backward areas and for grant of fiscal and financial incentives for starting industries in backward areas were earlier fixed by two Working Groups of the Planning Commission. Orissa was

one among the 9 States indentified by the Working Group as industrially backward. The National Development Council later decided that two selected districts in each of the 9 States and one district in each of the other States and Union Territories should be given the out-right grant or subsidy.

The Council had also decided that concessions by financial and credit institution should be available for financing industries in selected backward areas in all the States. The State Government had recommended the entire State to qualify for concessions from financial institutions.

REPAYMENT OF LOAN STIPEND

In a Press Note issued on the 25th May 1970 Government in the Education (L.S.F.) Department notified that all persons who had, having completed their studies, defaulted in the repayment of the loan stipend granted to them that if they repaid the principal in full within four months from the issue of the Press Note, 50 per cent of the total interest due from them would be remitted. It was also notified that where certificate cases have been filed by Government to recover the arrears on account of loan stipends, steps to withdraw the cases would be taken if the principal was repaid within the time-limit referred to above. The Press Note having issued on the 25th May 1970, the concessions announced therein were to cease with effect from the 25th September 1970. In pursuance of this Press Note repayment of arrears has improved and those who have reacted to it will naturally be given the concessions announced by Government. Representations have been received by Government that this decision of theirs came to the notice of many somewhat late and that, in consequence, they did not have time enough, to make arrangements for repayment of the principal and

avail of the concessions. Since the intention of Government is to provide maximum facilities to the loanees to repay the amount outstanding against them and since they would prefer the settlement of accounts otherwise than through coercive processes under the law, they have decided to give a further opportunity to the loanees.

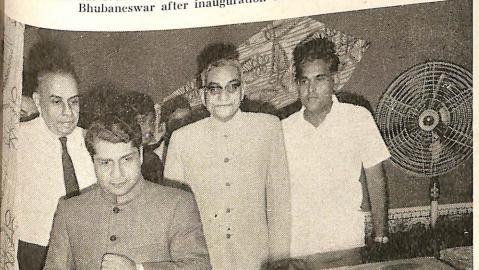
accordingly Government have pleased to decide that the time-limit for repayment of the principal on account of outstanding loan stipends is extended the 30th of November 1970. If the loanees repay the principal outstanding them in full by this date, they shall be allowed a fifty per cent reduction in interest due from them and steps will be them taken not to proceed against Certificate Courts. If, however, the dues certificate are not settled by this date, cases will be pursued vigorously and the demand will include the full amount of This is the last extension of time interest. and it would be in the interest of themselves to avail of these loanees concessions.

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The 28th meeting of the Small Scale Industries Board was held at Bhubaneswar on November 5, 1970. Union Minister for Industrial Development and Internal Trade November 5, 1970. Union Minister for Industrial Development and Internal Trade November 5, 1970. Union Minister for Industrial Development and Internal Trade November 5, 1970. Union Minister Shri R. N. Singh Deo Chief Minister Shri R. N. Singh Deo

Shri R. N. Singh Deo, Chief Minister, Orissa & Union Minister for Industrial Developand Internal Trade Shri Dinesh Singh going round the 'Orissa-70' exhibition at Bhubaneswar after inauguration on November 5, 1970



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The President, Shri V. V. Giri, inaugurated the Vivekananda rock memorial atop a rock